

SEQ ID NO:1730

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01948

SEQUENCE DESCRIPTION:

GATCAGCTGA TGGAGCTCCT GATTGACAA AGGAGCTTNC CTCCTTTGAA TGACCTAGAG 60
CACAGGGAGG AACTTGTCCTA GTAGTTTGA ATTGTGTTCT TCGTAAAGAC TGAGGCAAGC 120
AAGTGCTGTG AAATAACATC ATCTTAGTCC CTTGGTGTGT GGGNNNTTGT TTTTTTTTTT 180
ATATTTTGAG AATAAACTT CATATAAAAT TGAAA 215

SEQ ID NO:1731

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01949

SEQUENCE DESCRIPTION:

GATCGCACCG CCCCTCGCAG AGAGTGATC ANCTGTTTTA TTTTGTAAG AACAAAGTGC 60
TAAATAATAT TNATNACTTG GTTTGGTTNC AAAANCGGAT TAAATGN 107

SEQ ID NO:1732

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01950

SEQUENCE DESCRIPTION:

GATCACTGTG GTNTTCATAT TTCTAAAATA AATGAATTAA AAANTTTAAN GNCTTAGATG 60
CTTATCTCTA TCATAGCTCA GAATGCAACT NCAATACCCC CATTCTN 107

SEQ ID NO:1733

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01951

SEQUENCE DESCRIPTION:

GATCAACTGT ACGCCTTTGG TATCTGACCA TAAAGTCTTT TGCTCCGCTG ACATTGGGGT 60
GATGTCTTCA CATGGAAATA TAATAAAAT AAAAATCTAG TTAAAA 106

SEQ ID NO:1734

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01952

SEQUENCE DESCRIPTION:

GATCGAGGCT TCAGTGAGAT ATGGCTGAGA CACTGCTCTC AGCCTGGATG ACAGAGTGAG 60
AACCTGTCTC AAACAAGAGA AAAAAATAAA TCAAANNCTA TTCAAA 106

SEQ ID NO:1735

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01953

SEQUENCE DESCRIPTION:

GATCTGAGGA GGCTTCGTGG GCTTTTGGGT CCTCTAACTA GGACTCCCTC ATTCCTAGAA 60
ATTAACTT AATGAAATCC CTAATAAAAC TCAGTGCTGT GTTATTTGTG CCTCATTTCC 120
CCAGGAATAG TCACTGCCTT GAGGAACCAA A 151

SEQ ID NO:1736

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01954

SEQUENCE DESCRIPTION:

GATCCACCCA CCTNAGGCCT CCCAAAGTGC TGGGANNACA GNCGTGANAA CCACGGCTTC 60
GCCAACAAATG GATTTTAAA TTATTTCAC GTCACAAAA AACCTN 106

SEQ ID NO:1737

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01955

SEQUENCE DESCRIPTION:

GATCNANCCT CAACACCTAG TGCAATTCTT TTTACACATT AGGNACTTAG TAATTNGGGT 60
TGAATTGTGT TGAACCTAACC TGGCGGTATA GGCAAAANTT GGAAGN 106

SEQ ID NO:1738

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01956

SEQUENCE DESCRIPTION:

GATCTCCCAT TTCTAGGAAC CCCAGTCCTG CTTCTCCGCA ATGGCACATG CTTCCACTCC 60
ATCCATACTG GCATCCTCAA ATAAACAGAT ATGTATACAT ATAAA 105

SEQ ID NO:1739

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01957

SEQUENCE DESCRIPTION:

GATCCAAGAG ATATATTTGG CAACTTTTTC TAGAAAAGGC ACATTGGGTA TAATTCATTA 60
CATTCTTGAG TTTTITGGG TTTTITTTT TTTTITNGNG NNANN 105

SEQ ID NO:1740

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01958

SEQUENCE DESCRIPTION:

GATCCAGCTG GAAAGCTGAA GTATTTTCGAT AAAGTGAATT GAGAAATACT TCTTCAAGTT 60
ATGATGCTTG AAAGTTCCTA ATAAAGTCA CGGTTTCATT ACCNAAA 107

SEQ ID NO:1741

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01959

SEQUENCE DESCRIPTION:

GATCTTAAGG TATCAGTATT TCAGAATCCT GCGACGATTT TATTTCTAAA TTCATGTACT 60
GTATGTCAT AAGTGAAAT AAAATNTCAT ATTCTTTTCT ATNATTGGTA TCATTCAA 119

SEQ ID NO:1742

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01960

SEQUENCE DESCRIPTION:

GATCCTTAGC TCTTTGCTCT ATGGCCCTTC CTCATCAGGG GACCGTTTCC CCCCTCTTCC 60
TTCACAGTAT TTAAGAAATA AAAGTCGGAT TTNCTGGCT GCTTCTCTC TAAA 114

SEQ ID NO:1743

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01961

SEQUENCE DESCRIPTION:

GATCGCCCCA TTGCACTNCA ANCTGGACAG CAAGAGCAAA ACTCCGTNTC AAAAAACAAA 60
AACAAAAANCA AACAAAAAN TTCCCTGAG AGAAACCTA TN 102

SEQ ID NO:1744

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01962

SEQUENCE DESCRIPTION:

GATCACACAC TAAGAGAACG TTGATTGCCT CGGCTATTGT GCTGGCTGGA CACTTTGGTC 60
ACTTTTGAAG CATGTTAATA AATGTCACTG ATTAAACAA A 101

SEQ ID NO:1745

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01963

SEQUENCE DESCRIPTION:

GATCAAAGTT TGAACAACAT TTTAGGCTAC TAGATATGAA CAACATCTTG ATTATGTAGT 60
TGAAGGAAAT TAAAGATGAA TGGTTTAATT AAAAATTAAA 100

SEQ ID NO:1746

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01964

SEQUENCE DESCRIPTION:

GATCAAATTA AATAATTCAA GCCCTGCCTT CAAAATGAAA TTTTTTTTTT AGTATTATTT 60
AGCAAAANCA ATAAAACCCA AATTTTTTTA ACCATCAAA 99

SEQ ID NO:1747

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01965

SEQUENCE DESCRIPTION:

GATCACTTCA AGCAAGCCCC CATGATGGTT CTCAGTCCTG CTTCTCTGTG GGTACGTGCC 60
CCTCTGTTTA AAAATAAACT GAATATGGAT GTTTAAA 97

SEQ ID NO:1748

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01966

SEQUENCE DESCRIPTION:

GATCAAAATG AAAACCTGTT GATGTGAATT CAGTTATTGA ACTTGTTACT TGTTTTTGCC 60
AGAAATGTTA TTAATAAATG TCAATGTGGG AGATAATAAA 100

SEQ ID NO:1749

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01967

SEQUENCE DESCRIPTION:

GATCTGATGT TCCTTTTATT TATAACAATG TTAAATGCAA TTGTCTTGTA CCTTGAGTTG 60
AGTATTACAC ATTAAAGTAA AGTACAAGCT GTAAA 95

SEQ ID NO:1750

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01968

SEQUENCE DESCRIPTION:

GATCCAGAAG TAAATGTATC TNCAAGCTGA TTAAATTGT AGATTNNTC TTCATTGCAT 60
ATTNCTGAT GTTGAATAAA GTCTGAGTAT TAAA 94

SEQ ID NO:1751

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01969

SEQUENCE DESCRIPTION:

GATCCAAAGT ATATTTTAC TGAGAATATA TCTGAAAAA TTTGAATTGA GATTAAATTT 60
TTAAATGAAA TATATTTACT TTTTTTAAA 89

SEQ ID NO:1752

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01970

SEQUENCE DESCRIPTION:

GATCCTGGCC CCTCAACCTC CTGTGGAACC CAGCAGTTCT GTTATATCCC CTGCTACCCT 60
AGATGAATTA AGACGGTTAA ATACTGAAA 89

SEQ ID NO:1753

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01972

SEQUENCE DESCRIPTION:

GATCTGTCTT GCTTATTGTT GCCCCTGCG NCTAGCACAA TTCTGACACA CAATTGGAAC 60
TTACTAAAAA TTTNTTTTAA CTGTTTAAA 89

SEQ ID NO:1754

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01973

SEQUENCE DESCRIPTION:

GATCATATGG TAGTTTTGTT TTACTAATCT AAGGGTACTA GCATCTACAA TNATATAGAC 60
AAAATAAAAT ATTTCTTTAA TGGCAAA 87

SEQ ID NO:1755

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01974

SEQUENCE DESCRIPTION:

GATCTGTTTT CTCTAAAATC TTACCATATT GTCTGTATAT GGTGTAAAT NCAATGGAA 60
AGTAAACGT TTTGGCCCTG ATAAA 85

SEQ ID NO:1756

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01975

SEQUENCE DESCRIPTION:

GATCCTGCTG GAAACCACGG CAACCTGTAT CCACTATTAG GAGGTAAAAA TCAATAAAAT 60
GGCCCATTC A TTTGTGTTGT AGCTCAA 88

SEQ ID NO:1757

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01976

SEQUENCE DESCRIPTION:

GATCTACAAC ATATAAAATT GTGTATTTTC NTTTGGTTGT CCCTATTAAC AAAAAAGTAT 60
TTNAATAAAA ANTTGAAATG NAAA 84

SEQ ID NO:1758

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01977

SEQUENCE DESCRIPTION:

GATCCCACTG TAAATTGGA AATGGGCAGT TCTGAATTTT CACGTTTGAA ATGTAAAATA 60
TAAACTTCAG TCAATATCCA AA 82

SEQ ID NO:1759

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01978

SEQUENCE DESCRIPTION:

GATCTGGACG TTCACGTGCA CTCTCTTCCT GTACAGTATT TATTGTTCTT GGCACCTTAT 60
TTAAAGATAT TTGACCCTCA AA 82

SEQ ID NO:1760

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01979

SEQUENCE DESCRIPTION:

GATCCTTACT CCTGCATTGT TCTTTGCCAG NGNCCTATTT AAAAATTTTA AAATTCTCAT 60
TAAAGTCAGC TTGGGTTTAA A 81

SEQ ID NO:1761

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01981

SEQUENCE DESCRIPTION:

GATCTAAAGA GAAAGGGGAG AAGAGGGAAA AAGGAAACAA AGGAGAAGAA AGAGGGAAAG 60
GAAAAAAAAG AAAAAGAAA 79

SEQ ID NO:1762

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01982

SEQUENCE DESCRIPTION:

GATCATGAAA GGTGATAAGC TCTTCTATGA TAGGGGAAGT AGCGTCTTGT AGACCTACTT 60
GCGCTGTTGT ACTCTGAAA 79

SEQ ID NO:1763

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01983

SEQUENCE DESCRIPTION:

GATCAAATAT TTGCTTTN ACTNAAATCA GCCAGCCCAT NACCCCAAT AAAGGGCAGC 60
TGCCTCTGCT CCCTCTGAAA 80

SEQ ID NO:1764

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01984

SEQUENCE DESCRIPTION:

GATCAAAATTT CTTAAAGCAA ACAACAAAAA TGTACATTTT TGTTTTTCCT TTTAATAAAC 60
AGGTGTACTC TTTATCAAA 79

SEQ ID NO:1765

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01985

SEQUENCE DESCRIPTION:

GATCTAGTGT CCTTTTGTGA CACTAAACAG GTGAATGCTG ACTTTTTTCA TTCTCCAATA 60
AATNTCACTG AACTGAAA 78

SEQ ID NO:1766

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01986

SEQUENCE DESCRIPTION:

GATCTTTGTT TAGTTTCAAG TCTTTTATA ACTAAATCTG CTGGCATTAG ACAATAAATA 60
CATTTTCAAA ATAAA 75

SEQ ID NO:1767

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01987

SEQUENCE DESCRIPTION:

GATCATATAT ACTTGATATA TATCATCCCT TCCCTTGATT TCTTTCAATC TAAAAATAAA 60
TATGAGAAAA ACAA 75

SEQ ID NO:1768

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01988

SEQUENCE DESCRIPTION:

GATCGATATT AATGTATCCA ATGAAATAAT CGACTTGTNC TTGATAGCCT CATTAAAGCA 60
TTTGTTTTN CACATAAA 78

SEQ ID NO:1769

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01989

SEQUENCE DESCRIPTION:

GATCTGAGCC CCCAAGATGG AGAATGGGGA GGAGCTTTT ATGGCGGACT GATTAAACT 60
CTTAAGCATT TAAA 74

SEQ ID NO:1770

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01990

SEQUENCE DESCRIPTION:

GATCTGCTTG GCCTTGATAA GCTATGTTGT TGCACCTTAA ACATTTAAAT TATACAATCA 60
TCAACCCCCA AA 72

SEQ ID NO:1771

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01991

SEQUENCE DESCRIPTION:

GATCCTCCCC TTCAAATGAC TGTAATTAAC AACACTTAAA AAAGTTGAAT AAAATATTGA 60
AACCTCAAA 69

SEQ ID NO:1772

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01992

SEQUENCE DESCRIPTION:

GATCTATTCT GAAGCTGTTT ATTTTAAACA AATAAAATGT TACAGGTTTC ACATGATTGA 60
TTCTCAAA 68

SEQ ID NO:1773

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01994

SEQUENCE DESCRIPTION:

GATCCGTAAC TNCGGGATAA GGATTGGCTC TAAGGGCTGG AGAAGGAATG AATAAAAAA 60
AAGAAA 66

SEQ ID NO:1774

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01995

SEQUENCE DESCRIPTION:

GATCCCATGT CTCTGCCAGG ACCAAGGCNG ATGTTTCCCC ACTAATAAAG TGCCGGGTGT 60
CAGCAAA 67

SEQ ID NO:1775

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01996

SEQUENCE DESCRIPTION:

GATCCTTTTT AATACCACAG CATTTGTACT GTTCCTTTT AATATACTGA AAATATAAAA 60
GGAAA 65

SEQ ID NO:1776

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01997

SEQUENCE DESCRIPTION:

GATCCGATTA TTTCTGCCAG TNTATTTTGG NCACTTTATA ATCATTAAAG CACTTCTTG 60
GCAGGCNCAA A 71

SEQ ID NO:1777

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01998

SEQUENCE DESCRIPTION:

GATCTTACAA TAATGTTCCA CTCTGCAAAT TTTAAGGTT CAAATAAAGT TTAATTGTTT 60
GCAAACTGTA AA 72

SEQ ID NO:1778

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01999

SEQUENCE DESCRIPTION:

GATCATTGCA CCATGTCAGA CTTTGTATA TNCCTTGAAA ATAAATGAAA GTNAGAATCH 60
TCAAA 65

SEQ ID NO:1779

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02000

SEQUENCE DESCRIPTION:

GATCCTGTCC TGATTCTCAA AAATTATTTT CTCTGTATGA TTAAAAGTTT ATTCCATTTA 60
AA 62

SEQ ID NO:1780

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02001

SEQUENCE DESCRIPTION:

GATCCCTTCA TTTGAATATT AATGGCTTTT TCCATTAAAG AATAAAATAT TTTGGACAAT 60
GCCAAA 66

SEQ ID NO:1781

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02002

SEQUENCE DESCRIPTION:

GATCAAATTT ATAAGTTATT ATTTTAAATT TTCTAAATTA AATAAAAGAA AGAATGCAAA 60
CCAGGAAA 68

SEQ ID NO:1782

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02003

SEQUENCE DESCRIPTION:

GATCAATAAA GAGTAATTC TTGCTAAATA AATAAAAGAA ACCTTGTTGA AAAACTAAA 59

SEQ ID NO:1783

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02005

SEQUENCE DESCRIPTION:

GATCTGAATN ATGCACCCCA CCCCCACCCC AATAAAGAAA TAACAGAAAA CCCTCGAAA 59

SEQ ID NO:1784

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02006

SEQUENCE DESCRIPTION:

GATCTTCATT TTTTTTTTAA AACTTGGCGT TTTTGAATA AAAACCTTTT GTCTTAAA 58

SEQ ID NO:1785
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02007
SEQUENCE DESCRIPTION:
GATCTCAGTT GTAAATAGAA AAATCTAATT CAATAAACTC TGTATCAGCC CCCAACAAA 59

SEQ ID NO:1786
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02010
SEQUENCE DESCRIPTION:
GATCCAAAGT CATGTGTCCA CACATTCATA AATAAAAATT TTACCTATGA AA 52

SEQ ID NO:1787
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02011
SEQUENCE DESCRIPTION:
GATCCAGTGA AGCCAGAAGC CAAATAAACT CAAAAGCTGT CTCCCCACAA A 51

SEQ ID NO:1788
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02012
SEQUENCE DESCRIPTION:
GATCCTAATT TATGCCTATG CAAAAAATAA ATAACGCCCA AGAGCTGTGG GAAA 54

SEQ ID NO:1789
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02013
SEQUENCE DESCRIPTION:
GATCGCCTAG TATGTTCTGT GAACACAAAT AAAATTGATT TACTGTCTGC AAA 53

SEQ ID NO:1790
LENGTH:58
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS02025

SEQUENCE DESCRIPTION:

GATCCG TAGT AATAAATTCT CAGAGGACTC AGCCTTTCCT GCGGGTCTGG AGCTCAAA 58

SEQ ID NO:1791

LENGTH:597

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02039

SEQUENCE DESCRIPTION:

GATCAGAGTC TCTTGGGCAT TTTATATTTT GCATTCTGAT GTACCTAGGA GTTTTGTTAA 60
 ACAGATGATG TATGTNAGTA TTTATCCCAT TTTATGCAAT TAACCAAATC AACCAAAAAA 120
 AGTGACCATG AAGTCCTGTA TTTGTNTTTT TACTACATGT AGGAACTCTC ATGTGAATGA 180
 GTACTGTAGT AATCCATTCT ATGGGAGCCT TATTCAGAA ATATTCAAA CTGGTGCAAA 240
 TGGAAAAGAC TTTCTCTTTT CCTTTAAAGC TAAAGACAAG AATATCATGC TATACAGGTG 300
 CAACTCAATC CCCGTTAATA AAAACCAATG TAGGTATAGG CATTCTACCC TTTGAAATAG 360
 CTGTGTCCCA ACCTGTTGCC ATTGATTTTT TGGGAATGGC TTTAGGAAAT ATCCAAGTTG 420
 TCCTTGGAAT TGTCTAACCA TGGNCATAAA CAGTTGTCTC CCTTCTACTT GTGTAGAATA 480
 CTTTGGNCTT AATTTTCCCN CCAGATACAG GGGGGTACCT GCCTGTTTTT CNAAGGGTTT 540
 ATTACTGGNG GTACCATTG GTAGGATTGT TTTAAATAAA AAAACCTGGT TTTTAAA 597

SEQ ID NO:1792

LENGTH:518

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02040

SEQUENCE DESCRIPTION:

GATCCAAAAC TGGACCCCTG GAGCCGTCGA CTCACAGATG GATGACATGG ACATGGACTT 60
 AGACAAGGAA AAAANNCAGG ACTTGAAGGA GCTCAAGGTG CTAGTGGCTG ACAAGGACCT 120
 TCTGGACCTG CACAAGAGCC TGGTGTGCAC TGCTCTCCGG GGAAGCTGG GCGTCTTCTC 180
 TGAGATGGAA GCCAATTCA AGAACCTGTC CCGGGGGCTG GTGAACGTGG CCGCCAAGCT 240
 GACCCACAAT AANGATGTCA GAGACCTGTT TGTGGACCTC GTGGAGAAGT TTGTGGAACC 300
 CTGCCGCTCC GACCACTGGC CACTCAGCGA CGTGCGGTTC TTCCTGAATC AGTATTCAGC 360
 GTCTGTCCAC TCCCTCGATG GCTTCCGACA ACAAGGCCCT CTGGGACCGC TACATGGGCA 420
 CCNTTCCGNG GCTGNCTNCT GCGGCCTGTN ATCATGACTG AGGTGGCCTN CCAAANGTTN 480
 CGCCCAAGGT TGACAATAAA GTTGCTCTGA GTTTGAAA 518

SEQ ID NO:1793

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02041

SEQUENCE DESCRIPTION:

GATCTGTAAT TTTAATTTT ACCCTCTGTA CCCCATGACC TTATCCTTCC TCTCCTTCCT 60
 TGTTACCCAT GAAAACTGG CAACATTCCA AGAATAGCAT CTGTACAAAG GGGAAAGAAC 120

ATAAAGGTAA AACAAAACAA AACAACATTT TGAGAACAAA GATGACCATA ACCACTGAAG 180
 GGAATCACAT CTTTAAAGAC AAATTCATAT TCTTTTATTT GTTATGGCAG ATGACAAGAT 240
 GGTACAACCT TTATTCTTTT NCAAAATAAA ACAAAGGGCA CAGCATCTGT AGTCAGCCGA 300
 CAACTATTNC GGCCTTTTGG GGGTNGGTCT NGCCGTACTT GTGATTTTGA TGGTACGTGA 360
 CCNTNTTCTG GAAGGCTTGC CCCNTTGCCC GTGTACATAG GTGCATTGGT TNCTNTGGGA 420
 GGGGCCCAAG NACTTTTNGG CNANNGTTGT ACTGGTATTG TNATGAAATT TNCGGTTGGN 480
 CCTCTTGNA NTTTTTNTG CANGAANGNN GGN 513

SEQ ID NO:1794

LENGTH:499

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02042

SEQUENCE DESCRIPTION:

GATCTCTTAA GAGATGATGG ACTCATGTAT GTCACCCGAC TTCGCAACAC TGGGGTTCAG 60
 GTGACTCATA ACCATGTTGA GGATGGATTC CATGGAGCAT TTTCATTCT GGGACTTAAA 120
 ATTAGTCACA GACTTATAAA TCAGTATATT GAGTGGCTAA AGGAAAATCT ATAGTAAAC 180
 ATGTAGCTAT AACATATTTT AAAAATAAAA TCTGAAAACC TCAGAAAATT TGCATTAGAA 240
 ATTGGTCTTT CTTAGAATGG TCTAGTTAAG TTCCACATGT AGCATAATTC TTAAATAGGC 300
 ACTTTTCTGT TTTTTTTTNC TNACTGTGGG ATTTTCATNNC AATTTTCTAC ATTGTCTATC 360
 TGCTTTTNC TNGATTTC NCTTACACTG TTAATCTNAT TTTAAAAAA TGTACATNCC 420
 NNGNANACNT TAANTTTGGG GAGTTNGGCT ACNANTTNAC GGTGCCAGG GGGNTTAAAT 480
 GGTGGGGCCA ATTTTAAA 499

SEQ ID NO:1795

LENGTH:483

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02043

SEQUENCE DESCRIPTION:

GATCAAAGCG CCACTGCCCT GCACTTCCTG GGCCGCGTGG CAACCCGCTG NGCACAGCAT 60
 GAGGCCAGGG NCCCAGAACA CAGTGCCTGG CAAGGCCTCT GCCNTGGCC TTGAAANAA 120
 AGGCCAGCAG CAGATAACAA CCCCAGACAA ATCAGCGATG TGTCACCCCA AGTCTCCAC 180
 CTTTCTTCT AATGAGTCGA CTTTNGCTG GAAAGCAGCC GTTCTCCTT GGTCTAAGTG 240
 TGCTGCATGG AGTGAGCAGT AGAAGCCTGC AGCGGCACAA ATGCACCTCC CAGTTTGCTG 300
 GGGTTATTT AGAGAATGGG GGTGGGAGG CAAAGAACCA GTGTTTAGCG CGGGACTACT 360
 GTTCCAAAA GANTTNCAAC CGNCCAGNTT GTTGTGAAA CAAAAAGTG TTNCCTTTT 420
 CAAGTTTGAG AACAAAAATT GGGGTTTAA AATTAAAGTA TACCATTTT TGCATTTGNC 480
 AAA 483

SEQ ID NO:1796

LENGTH:481

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02044

SEQUENCE DESCRIPTION:

GATCCAAAAC GCTTCGAGGC ACCCCAAATT ACCTGCCCAT TCGTCAGGAC ACCCACCAC 60
 CCAGTGTAT ATTCTGCCTC GCCGGAGTGG GTGTTCCCGG GGGCACTTGC CGACCAGCCC 120
 CTTGCGTCCC CAGGTNNNA GCTCTCCCCT GGGCCACTAA CCATCCTGGC CCGGGCTGCC 180
 TNGTCTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCCG TGTCCCAAT 240
 GTCTTCAGTG GGGGGCCCCC TCTTGGGTCC CNTCCTCTGN CATCANCTGA AGACCCAC 300
 GGCAAACACT GAATGTCACC TGTGNTGTCN GNCTCGGTCC ACCTTGGGG CCGTGTGTTGA 360
 CTAAACTTNA ACTTCTTTA ACGGTAATAT TTCCGGCAA AATCCAATGG TTTGGGTTT 420
 GGTCTTTTAA CNTTGAAAC GGTGCAAAT CCAAATAAA GCAATTAAG AGTCAATGAA 480
 A 481

SEQ ID NO:1797

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02045

SEQUENCE DESCRIPTION:

GATCTAAAAG GGTTCCTTA GAAAGGGCAA TATTGTCCAA TGAAGTAAGC AGAAGGACTC 60
 TGGGTTAGAA GCATCTGCAC AAAAAGTGGT GAGACCTACT CTCCACTGCT CTGCAGCTGG 120
 ATGGCTGATG GCAGGCTGAG CAGTGGGGAA GCAGGTTTAA ACAACAGGGA GTCCTTCCAG 180
 GTCAGTGTAT ATTNGAAGA AACATAAAC TATTGTCTGT TACATTCCGA GGTCAGCCTT 240
 CTNCTTAACG TTTTATAATA TGCAATNCC AGCTTCTGGA AAGCANGTAT CATCATGTAC 300
 CAAATGCTTT ATACACCATC ACATTCATGA NTTTTNAGC ATGGTCAGAN CTTGTGTAAG 360
 TATGTCTCTT AGGATGATTT TGGGGGAGGA TGTGATTAT TTTCCATAAT TTCCAAANTN 420
 GCATTTTCCA TTTCAAATA AGGNTAATCT NTTGGGGCCA AA 462

SEQ ID NO:1798

LENGTH:448

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02046

SEQUENCE DESCRIPTION:

GATCAGCCTG CAGCCATCCC CCGACCCTGC TGCTAGGCCA CGGTCTGCGC CCTGGGGCCT 60
 CATCTCCCC AGCCCACTTG TTTTCCCCC TTTTATCCC TAGGCCCTTT TCAGACTCCT 120
 GGGCCCTTGG NNNCTCTTCT CCCATCTCCC TTCACAGGAT GACACCCTCC CATACCCCAT 180
 AGCTGGGGCC AGCAGGTTCT GCTGAGGGTG GGGCTGGTGT AGGGACCCC AAGAGACCCC 240
 TGTCCTGTCC CTTACCACTG CCTGGGGAGG CTGGGACTCC CCCTGCCACA AGCCTGGGCC 300
 ACAGTTCACA TTCACTGCT GGGAGAAGAA ACAGGCCGAG GCCCAANAGT GGCCTGCCCC 360
 CGGGAGCCAA AGACCNAGT GGCCACANTG GGATTAGGGT NGGGGAGGNT TGGNAGCGCT 420
 NTTTTATAA ATATTATACA TAAGGAAA 448

SEQ ID NO:1799

LENGTH:448

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02047

SEQUENCE DESCRIPTION:

GATCTGGTTG GTGGATGAAC AAGTGTCACG CTGGCCATCT CAATGGNGTT TATTACCAAG 60
GTGGCACTTA CTCAAAGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
CTTGGAAGAAC CCGGTGGTAT TCCATGAAGA AAACCACTAT GAAGATAATC CCATTANCA 180
GACTCACAAT TGGAGAAGGA CAGCAACACC ACCTGGGGGG AGCCAAACAG GCTGGAGACG 240
TTTAAAGAC CGTTTCAAAA GAGATTACT TTTTAAAGG ACTTTATCTG AACAGAGAGA 300
TATAATATTT TTCCTATTGG ACAATGGACT TGCAAAGCTT CACTTCATTT NNNNGAGCAA 360
AAGACCCCAT GTTGGAAAC TCCATACCAG TTTTATGCTG ATTGATAATT TATCTACATG 420
CATTTCAATA AACCTTTTGT TTCCTAAA 448

SEQ ID NO:1800

LENGTH:432

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02048

SEQUENCE DESCRIPTION:

GATCTGAATT ATCTGGCACC CTCCTGAATG GAACCCAGA GTACCTCCTG TGTGGAAGGG 60
TCCTGGATTT TCCCTAACAC CCACCTCTC CCCCTCAGC CATGCTGATG GCAGAGAAGA 120
TAAGAACTTG GAGCCCATTT CTCCTGGAG AGGAAACTT GTCATCTGGC TTTGCGGAGA 180
AGGTTCCACC TTACGCTCGT AGTACATTAT CTTTACTATG TGCTAGGATA TCATATTTAA 240
AAGGACAAAA AAATGTAATA TACTTGAATG AGCTTGTATT ATANCATTAA TATTATNNNG 300
NGTATCTGCT TTCCAGGCTG AAGTGATTCA TTCATTATTC TAGTCCTGCT TTAGTCCTTT 360
GTAATTTGTG GTAATTATGC TTTTCTTTT AATACAAAA AATGTATAAA ATTAACACT 420
TGAAAAGGCA AA 432

SEQ ID NO:1801

LENGTH:430

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02049

SEQUENCE DESCRIPTION:

GATCCGNGCG AGGGCAACAG CGGNTCACCT ACAGCGCACT GTCGATGGCT GCACGAGTCA 60
CACCGGAGCC TGGGGCAAGA CAGTGATTGA ATACAAAACC ACCAAGACCT CCCGCCTGCC 120
CATCATCGAT GTGGCCCCCT TGGACGTTGG TGCCCCAGAC CAGGAATTCG GCTTCGACGT 180
TGGCCCTGTC TGCTTCTGT AAATCCCTC CATCCCAACC TGGCTCCCTN CNACCCAACC 240
AACTTTNCCC CCAACNNGG AAACAGACAA GCAACCCAAA CTGAACCNNN TCAAAAGCCA 300
AAAANTNGG AGACAATTC ACATGGACTT TGGAAAAATA TTNTTTTCCT TTGCATTCAT 360
NTNTCAANCT TAGTNTNTA TCTTTGANCA ACCGGANCA GGCCAAAAAN CAAAAGGTGC 420
ATTCANCTN 430

SEQ ID NO:1802

LENGTH:428

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02050

SEQUENCE DESCRIPTION:

GATCCCAAGG GAAAGATGAT TTGTATGTTA AAGTGACTGC ACAAGTAAAA GTCCAATGTT 60
 GTGTGCATGA AAAGGATTCC TTGGTTATGT GCAGGGAATC ATCTCACATG CTGTTTTTCC 120
 TATTTGGTTT GAGAAACAGG CTGACACTAT TCTCTTTGAT TAGAAAATAA ACTCATAAAA 180
 CTCATAATGT TGATATAATC AAGATGTAAC CACTATAAAT ATGTAGAAGA GGNCGTTT 240
 AAAGACCTTA AGCTGGCATT GTGAAGGAAC ACCATGGTAG ACTCTTTTG TAAATGTATT 300
 TTGTATTTAA TGAATGCAG TATAAAGGTT GGTGANGTGT AATATANTTG TGTAACAAA 360
 TCCTGTTAAT AGAGAGATGT ACAGAATCGT TTTTGGTACT GTATCTTGA AACCTTTGTG 420
 AAAATAAN 428

SEQ ID NO:1803

LENGTH:401

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02051

SEQUENCE DESCRIPTION:

GATCAAAACC AAACGTGTTCA ATGTGACAGT CTGAAAATTA TATACTCTAC TTCATTCATG 60
 TTACACTTTT TTCTACTCCT TACCTGCTTT TACTAATGCA TTTATCCCCA AGAAAACATC 120
 CAACAATATG GGACTAATTT GGAACAATAT CCAGCAATTG GTATTAAAT AATTACTGG 180
 TTACAAAACA ATATTATGAC CAGACTCCAT TTTAGAAAAA ATTAAATCTG CATCGAAAAG 240
 GGCCTTAAAA AATAGATTTT TAAAATCAAA ATCATGGTTG GCTCATGGGT GGGATTATTA 300
 GTGTTCTTAA TAGTAGTTTG TCTGGATGTA CTTTCTGATT CTCCTGTAAT AAGCATGCAT 360
 TGCTTTTGTA ATGNNGGAAT AATANACCAA TAAAAAGGAA A 401

SEQ ID NO:1804

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02052

SEQUENCE DESCRIPTION:

GATCCGGCTG CAAAATTCAT ACCAACCAAC AAATAAAGGA AGATACAAAG TCTTATAGAC 60
 ATCCGGAAAA AAGATTTTCT CCTGTGCTGG TCTATGATGT ATGTGGCAGT TGCTGTCTGC 120
 AGTTTACAAT GTATTGTAAA TGAAGATTTT TTAAATTCTA TCTTGCTGNT TNNNTNNAA 180
 ATATAAGAAA CTGGTACTTG GTAAAGAAAT CTGTCCGTAA GTACCCCCAC AATCAGTCAA 240
 ACTATATTTA AAGCCAGCCT GTTTTCAGAG TATGATGTCC TTTAATGTAA ACTCAAATAT 300
 CAATATTTTA AATGTCCGGA TAATATTCTA GAGGTTTAAA AAATGGAAAT ATTTGANCTT 360
 TCTATTGAAG ACAATAAAGG TACACAAGTC GTTAAA 396

SEQ ID NO:1805

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02053

SEQUENCE DESCRIPTION:

GATCAAGAGC AGTGCTTCTC CATTTGTTTT GCAGAGAAAT GTTTTTCATT TCCCGTGTGT 60
 TTCCATTTCC TTCTGAAATT CTGATTTTAT CCATTTTTTT AAGGCTCCTC CCCATCTCCT 120
 TTCTTAAGGC ACTGTTGCTA TGGCACTTTT CTATAACCTT TTCATTCCTG TGTACAGTAG 180
 CTTAAAATTG CAGTGATTGA GCATAACCTA CTGTTTGTGA TAAATTATTG AAATCCATTT 240
 GCACCCTGTA AGAATGGACT TAAAAGTACT GCTGGACAGG CATGTGTGCT CAAAGTACAT 300
 TGATTGCTCA AATATAAGGA AATGGCCCAA TGAACGTGGT TGTGGGAGGG GAAAGAGGAA 360
 ACAGAGCTAG TCAGATGTGA ATTGTATCTG TN 392

SEQ ID NO:1806

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02054

SEQUENCE DESCRIPTION:

GATCCTATTT GGTATGTTTT TGTCCACTGT TATGATTCAT CATGTATCTT ACAAGAGCCA 60
 CTCAAGCAAG ACTCTGCTTC TATGTATGGT GAGGCCTTGT TGTTCTAGGC TAGAATAAAC 120
 TCTTTGTATG CCTCAGTGAA TATGCCAGGT AAAATATATG CAGTCAAGAA TGAATTATTT 180
 TTCTGACTAA AGTGTGTAGC AGTAAGTTCA AAATNGTGCC CTTGTTTTAA CAGTTTCTGT 240
 CAACATCTTC TCATTTTTCC CTACAAAAAC ACCAGGGTGT ATTATAAGTA CTGCCTGTGA 300
 GAATTTGCAC TTTATGTATT TGTGTGTGGG ATTTCTGTG GTTTTAGCCA AATGAAGTGT 360
 TATCNNTAAT AACCAGGTCT CTTCAATAA 389

SEQ ID NO:1807

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02055

SEQUENCE DESCRIPTION:

GATCCAATTG ATGTATATGT TTATATACTG GGTTCCTGTT TTATATACCT GGCTTTTACT 60
 TTATTAATAT GAGTTACTGA AGGTGATGGA GGTATTTGAA AATTTTACTT CCATAGGACA 120
 TACTGCATGT AAGCCAAGTC ATGGAGAATC TGCTGCATAG CTCTATTTTA AAGTAAAAGT 180
 CTACCACCGA ATCCCTAGTC CCCCTGTTTT CTGTTTCTTC TTGTGATTGC TGCCATAATT 240
 CTAAGTTATT TACTTTTACC ACTATTTAAG TTATCAACTT TAGCTAGTAT CTTCAAACCT 300
 TCACCTTGAA AAATGAGAAT TTTATATTCT AAGCCAGTTT TCATTTTGGT TTTGTGGTTT 360
 TGGGTTAATA AAACAATACT CAAATAAA 388

SEQ ID NO:1808

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02056

SEQUENCE DESCRIPTION:

GATCTTTTCC ACCAGCACCC AGAGTGTCTT CTTTCTGGGC AAGGTCGTCG ACCCCACGAA 60
 ACCATAGCCC TCCCAGGGCT GCTCATCTGT TCCAAGCAGG AGGATGTGGC AGGGGAGGGC 120
 TGGGAGTGAG TAGCTCTGTG TTTAGAGTTG GGGACAAGGA TGACACCGAA GTCCAGGAGT 180

CCAGGACAGC AGGTGCTGGC CGGTGGGGAG CGGGGAGGGG CACTGAGATG GGCAGGGCCT 240
 GGACATTCCA CACCCTGGTG CTGTGCAGCC TCTGGCAGAG CATCCGACCT CTTGGAGCAA 300
 GTTCTGCCT CTGGAAGGG GCGGGGCCCT TTCACAACA GGCTGGTTTG TACCGAGTAA 360
 ACAACACGNT GCCATGAAA 379

SEQ ID NO:1809

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02057

SEQUENCE DESCRIPTION:

GATCCTAGGG GGTTTTGTTC GGTTTTNAAT TGTGAGGAAT AAAAAATNTT CTGCCACAC 60
 TGGCATTTTA AGGTGACTGA GGTCAAACGT TGTTTCCTTA GGTGAAATA GCAGCCAAAA 120
 CATTCTTNAC GCAGGGGCTT GGGATATGGC TGCTGGCAAC ACATTTTGTG GTGGGCTCCT 180
 TAATTTAATG ATAAATTTA AGCTAAACAC AAGCCAAAAA TGAATAGGTT TTTTNAATTT 240
 TNATTTTTC CTAAACAGGC AATTGAAATA CATGGTACAA AAATAAGTGG TAAGATAATT 300
 GTAAATGGA AATGGGCAGA NTATTCAATT TTCCATCTAT GNAAATTTTC NCATTAAAC 360
 TCATAGNTTT CTTTGNAAA 379

SEQ ID NO:1810

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02058

SEQUENCE DESCRIPTION:

GATCNGTTCA GCCCTGAAAA GTCCAACTC CCAGGTATTG TTGCAGAAGG NCGAGATGAC 60
 CTCTATAAAT CAGATGCATT CCATAAGGCA TTTNTTGAGG TAAATGAAGA AGGCAGTGAA 120
 GCAGCTGCAA GTACCGCTGT TGTGATTGCT GGCCGTTTCG TAAACCCCAA CAGGGTGACT 180
 TTCAAGGCCN CCNGGCTTNA AAAAGTTTTT ATAAGAGAAG TTCCTCTGAA CACTATTATC 240
 TTCATGGGCA GAGTAGCCAA CCCTGTGTT AAGTAAATG TTCTATTCT TTGCACCTCT 300
 TCCTATTTTN GGTGTGTGAA CAGAAGTAAA AATAAATACA AACTNNTNNC ATCTCAA 358

SEQ ID NO:1811

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02059

SEQUENCE DESCRIPTION:

GATCGTTTCT NATCTCNAAG TNCCTCATTG AGNTCGGTGC ATCTGGCCAN TGAGTCTGCT 60
 GAGACTCTTG ACAGCACCTC CAGCTCTGCT GCTTTCAACA ACAGTGACTT GCTCTCCAAT 120
 GGTATCCAGT GATTTCGTTGA AGAGGAGGTG CTCTGTAGCA GAACTGAGC TCCGGGTGGC 180
 TGGTTCTCAG TGTTGTCTC ATGTCTCTT TTCTGTCTTA GGTGGTTTCA TTAAATGCAG 240
 CACTTGTTA GCAGATGTTT AATTTTTTTT TTAACAACAT TAAGTGTGG CCTCTTTCTA 300
 CACCTGGAAA TTTACTCTTN GAATAAATAA AAACGCTT GNCTTGNCT TCTGCAA 358

2153480

SEQ ID NO:1812

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02060

SEQUENCE DESCRIPTION:

GATCTATACT AGATAATCCT AGATGAAATG TTAGAGATGC TATATGATAC AACTGTGGCC 60
ATGACTGAGG AAAGGAGCTC ACGCCAGAG ACTGGGCTGC TCTCCCGGAG GCCAAACCCA 120
AGAAGGTCTG GCAGNNNTCA GGCTCAGGGA GACTCTGCCC TGCTGCAGAC CTCGGTGTGG 180
ACACACGCTG CATAGAGCTC TCCTTGAAAA CAGAGGGGTC TCAAGACATT CTGCCTACCT 240
ATTAGCTTNN CTTTATTTTT TTAACTTTTT GGGGGGAAAA GTATTTTAA GAAGTTTGTG 300
TTGCAATGTA TTTATAAATA GTAAATAAAG TTTTACCAT TAAA 344

SEQ ID NO:1813

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02062

SEQUENCE DESCRIPTION:

GATCCAGTAG TAGAGACATC ATCGGTCCAA AAGACTTTGC ATCTCATTAG TTGTCCATAG 60
TGACTACCAG GAGGTGGCTG GCATCTATAA CGTGTGGGAC GTTTTATGT AAAGAACTGC 120
CTGTGTTTTT TTTTNAACC AAAGACACTG NCCATAGATT GACTTATACT TTTATAAGTC 180
TAATTGAAAT ACTTGGGGTA CTATGAAAGG NCTGTNCCTT GNGTGGCTAC GATTAGAAAA 240
TCAGGNCTAA CAAACTTTTC TTTGTCTGGA NGCATATATA TTTGTGATAT AATTNNAATA 300
TGTATAATTT TGGTTTAATA AATCAAATCT ATGCCAAA 338

SEQ ID NO:1814

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02063

SEQUENCE DESCRIPTION:

GATCCATAGA ATGGATACTG GGAGACAATT AGTAGACTTT GCTACAGGTA GCCAATAGCC 60
CAGCCTGCAG AGTCACGTCA GATATGAAAT CCCAAAGTTC CTCCTGACTA TTGGCAACAA 120
CAATCACTAA CTGCTACTAC AAAAAGGTAA AACAAAAATG AACTTACACT TTCAAAATAT 180
CATTATGTA TATTAAACAA ATACTTCTTG AGTGTCTACC CAGTGCCAGA CAGTGGTCTA 240
GGTTCTGGGA GGTACAGCAT CGTGGGCCAC ATGGTTAGAA GCTGAGTGTT CCTAACAAGG 300
AGGCTGATTT TGCTGCTCTA CTTTGCCTG GTTAAA 336

SEQ ID NO:1815

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02064

SEQUENCE DESCRIPTION:

00751

GATCTGGATG TGGATGATGC GCCTGGAAAC AGTCAGCAGG CAACTCCGAA GACAACGAGA 60
 TAAGCACCTT TCACAACCTC GGGAACGTTT ATTCCCGCT GAAGCTTCTC ACCAGCATGG 120
 CCATCTCGGT GGTGTGCTTC TTCTTCCTGG TGCCTGACT GCCTGGTGCC CAGCACATGT 180
 GCTGCCCTAC AGCACCTGT GGTCTTCCTC GATAAAGGA ACCACTTCT TATTTTTTTC 240
 TATTTTTTTT TTTTNGTAAN CCGGNANACC TCCTCCAGCC ATGAGGNNGG GGNNTANCCA 300
 NGTGTNATGT TTNGGAAANN NAAATGGNAT CTTTN 335

SEQ ID NO:1816

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02065

SEQUENCE DESCRIPTION:

GATCCATGTG TAATATCACA AGAAATTATG GAAAAATATA ACATAAAATT AAAGTGGACA 60
 AACCAACAAA AGCTTTATTC AAGAACAGGT GACATAGTTG AATTTGTTT TAAATCTGGA 120
 TATCATCAA CAAAATCTCA TTCATTTCGA GCAATGTGTC AGAATGGGAA ACTGGTATAT 180
 CCCAGTTGTG AAGAAAAATA GAATCAATGG CATTACTATT AGTAAAAATGC ACACCTTTT 240
 CTGAATTTAC TATTATATT GTTTTCAATT TCATTTTCA AGTACTGTT TACTCATTT 300
 TATTCATAAA TAAAGTTTG GTTTGATTG TGAAA 335

SEQ ID NO:1817

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02066

SEQUENCE DESCRIPTION:

GATCTTGATG CGGGACTTCA GTCCTAGTGG CATTTCGGA GCGTTTCAA GAGGTACTA 60
 CCGNNACTAC AACAAGTACA TCAATGTGAA GAAGGGGAGC ATCTCGGGGA TTACCATGGT 120
 GCTGGCATGC TACGTGCTCT TTAGTACTC CTTTCTCTAC AAGCATCTCA AGCAGGANG 180
 GCTCCGAAA TACCACTGAA GAGGACACAC TCTGCACCCC CCCACCCAC GACCTTGCC 240
 CGAGCCCTC CGGNNGGAAC ACAATCTCAA TCGTTGCTGA ATCCTTTCAT ATCCTAATAG 300
 GAATTAACCT CCAAATAAAA CATGACTTGG TAAA 334

SEQ ID NO:1818

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02067

SEQUENCE DESCRIPTION:

GATCCAAACA TGAAAGCTGG AGCTACAAGT GAAGGCGTTC TGGCAAATTT CTTCAACAGT 60
 TTGTTGAGTA AAAAGACTGG CTCTCCAGGA GGCCTGGTG TGAGTGGTGG TAGCCCTGCA 120
 GGTGGGGCTG GAGGTGGAAG CAGTGGTTTA CCACCATCCA CAAAAAGTC AGGCCAGAAG 180
 CCTGTCTTAG ATGTTTATGC AGAAGTAGAC AGAATTACAC GAAAACAGT TACAGTTTCT 240
 CCCACAACAC CTACATCTCC TACGGAAGGA GAAGCTTCTT GAAGATACCA AATAAGCCA 300
 TTTATTCTGT TTTCTGGGNT AATGTAAA 328

SEQ ID NO:1819

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02068

SEQUENCE DESCRIPTION:

GATCGGGGCT GCTTATGCCT TTCGTTTATC CTTGGGGTTT GAGAGCGCTG TATTGGGAG 60
 AGAGTTTAAA AATACATTAG GAGAGAGAAA CCATTAAAAG TTTCAGTGC AGAGATATTG 120
 TAGGTGCTAA TACTGGATT CGTCTCANAT TTAATTTCTT TNATGGGTCT GTTAGTCATT 180
 CANCAATCC CATAAGTATG TGTTAATATT TNAATTGTGT AAAACTCATT TGTTACTTTA 240
 CAGCCTGTAA TAGTGTGTCT GCATTTNCAA CCTGTTGCAA TAACTTTNCT GAAATATTAA 300
 CACATTAATA AAACTTTCT TAAACAAA 328

SEQ ID NO:1820

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02069

SEQUENCE DESCRIPTION:

GATCAGAGAA GAGGCTACTG GGGGAGAATT CAGTGCCCCC TTCGCCCTCT AGGGNGCAGA 60
 CCTCCACTGC CATTGTCCTG TNAGCCGCCA AANACCCAC GGGGTGCCCG CATGTCCCTG 120
 TCTANNNGCA GCCCAGGGCC CCCACTCCTG GCTCCTNACA CTTGCCTCCC CTATGGCCGC 180
 TCTCCAGACC CTCCTCCTTT CTTCTCCCA CATCCGACC TGCTGTTCCC ACTCTGGGGT 240
 TCTCAAGTCC ATGAACAGAT ATTGTTGCAT TTTCCACAAT GCTGATTAAA CATAATAAAC 300
 AATCCAGAAA AGCAGTTTGT CCCAGAAA 328

SEQ ID NO:1821

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02070

SEQUENCE DESCRIPTION:

GATCCAAAAG CCAGTCTCAG GAGTTTACCC CTGGGATGGG GGATGCATCT NCACCTGACT 60
 TTGGGGCCAC GTGCCCTGTG GCACCCAGC TCACTGGGAG TCTCAGGAGG GATAACCGGA 120
 TTTNTGCTCT TCCCCGTGCT ACTCCACAT CACACAGAAA AATGGCATTCT CTCTCTGTCT 180
 CTCCTTGCA TGGAGAGGGC AGACTGTGCA CATTCTACTA GGGTCCAAAT ACAGAAGGGC 240
 CCAGGGCCCA GGGGCTTGCA GCTTCGTGAG GGGTCTCTGG CCCAGTTTCC AATGAATAAA 300
 GTTCTCTGA CAGCTCAAA 319

SEQ ID NO:1822

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02071

SEQUENCE DESCRIPTION:

GATCATCAGA TGGTCGAGTA CTCTTGAAT GTCTCTTTCG TGTTTACTGT GGCCTCTTTA 60
 CAATGGTGAG ACTTATTTCT ACCCTCTACT TTCCACTATT ATTNTTTTCC CCTATTGGAT 120
 AATACTAGTC TGAGCAGCCC TAATACTAGA TGTACCTAAA CAGAGATACA AGCCAAGTCA 180
 TTGTTCACTG TAGTCATTTC TTAGTATCTG TTTATATTTT GTCACACATC AGAATGTATA 240
 TTTTATAGAG CATGTGTTTG TCTACTNGTT TGTCTACTAT AATATGTCTT TAATAAAGCT 300
 AAAANCATTG TGAAA 315

SEQ ID NO:1823

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02072

SEQUENCE DESCRIPTION:

GATCGCTTTT TTGCCGCTCA TATTGAATG CATTGGGTTT CCTGGACCAG CTATTTGCAC 60
 AAGACTAGGG GGAGGTTGAG GGTGGCATA GCAGGCAGGG GCTGGGATAG ACATTCAACC 120
 TAGCTNNNNT TCATGCTCTT AAGGCTTTAT TTTCTAGAA TGCCAAGAAA CCAACTTTCT 180
 TTAAACATGA CTCATCTCTT CGATTTTCTT GTATAGGTCT TCCTCCCACC CCAAATCTAC 240
 ACTTGTTAGA AACAGAATAA TTACCTTTGC TTACTCCATT ATCAACACTT GGAGATAGAG 300
 ACTTTACACT TCAGN 315

SEQ ID NO:1824

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02073

SEQUENCE DESCRIPTION:

GATCGAAAAG GGACCCTGCT TCCAATTTCC CTCTTCCATT CCTCGAGCTA CTCCAGGGCT 60
 TAGAAGAATG CTCTGGTCT GTGGGTCCAG TGTGTCTGT CATCCATTGA AGTGTTCCTA 120
 CTTTCAAGTG ACAATCCTCT CCTTGGCCCT GCCATAGGGC AGAGCATGTN TGGCATAGCA 180
 GCCTGACTTT NATGCCCTAA TCTTGAGTTG AGGAAATATA TGCACAGGAG TCAAAGAGAT 240
 GTCTTTATAT CTGACTGTAT ATAAATGAAG TTTTNGTT TTTTNGTT TCCTTTTGG 300
 TGCAATAAAG TTTGTTTTGG CAGAAGGAGA AA 332

SEQ ID NO:1825

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02074

SEQUENCE DESCRIPTION:

GATCAAGGCG CGGACGCTAT CTACGACCAC ATCAACGAGG GGAAGCTGTG GAAACACATC 60
 AAGCACAAGT ATGAGAACAA GTAGTTCCCT GGAGGCCCCC ATCCAGGCCA GAAGGACCAG 120
 GTCCACCCAG CAGCTGTTTG CCCAGAGCTG GAGCCTCAGC TTGAAGATGA TGCTCAAGGT 180
 ACTCTTCATG GACCACCATT CGCTGTTGGC AAGAAACGGC TTTACTTACA AAACAGACTC 240
 TTTACCTTCT GCTGTGTTTG AAGTATGTTT AGTCAGCATG CTCAGGAAAT AAATGTGAAT 300

TGCCCTTGAA A

311

SEQ ID NO:1826

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02075

SEQUENCE DESCRIPTION:

GATCTAGTGT TTGGAACGGA CGTTACCTGC TGGTTTGTGC ACAACAGTGG AAAAGGATTC 60
 ATTGACGGGC ATTACAAGGA TTACTTCGTG CCTNAGCTCT ACAGCTTTCT CAAACGGCCT 120
 TAAAGGTTTA TAGTTTGGGA AATTATATAT TATTATACAT CTTTCCCTG TCACTTTTGC 180
 AGATATTCTT CGGTNCCNAT AATTAAAATG AACCAGATAT CAGGGTGGTT AATTAAAATG 240
 AACCAGATAT CAGGGTGGTT TATAAAGCCT GTAAACACAC CTNAGAAAAT ANACATTTTA 300
 CANATGAAA 309

SEQ ID NO:1827

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02076

SEQUENCE DESCRIPTION:

GATCATGAAT AACTGATTAG TAAGTCTTGC CTATATTTTC CTGATAGCAT ATGACAAATG 60
 TTTCTAAGGT AACAAGATGA GAACAGATAA AGATTGTGTG GTGTTTGGGA TTTGGAGAGA 120
 AATATTTTAA TTTTAAATG CAGTTACAAA TTATAATGTA TTCATATTG TACTTTCTGT 180
 TAAATGCAT GATTGCAGAA TTGTTTAGAT TTTGTGTTTA TTCTTGATGA AAAGCTTTGT 240
 TTGTTCTTGT TTTAAGTTT GCACTCAAAT CTTAAGAAAT AAATCCACCC ATGTTATCAA 300
 A 301

SEQ ID NO:1828

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02077

SEQUENCE DESCRIPTION:

GATCAGTGAA CTCTGGTTTT AAGATAATCT GAAACAAGGT CCTTGGGAGT AATAAAATTG 60
 GTCACATTCT GTAAAGCACA TTCTGTTTAG GAATCAACTT ATCTCAAATA GTAACGCGG 120
 GCCTAACTAT ATGAGATGGC TGA AAAAATA CCACATCGTC TGTTTCACT AGGTGATGCC 180
 AAAATATTTT GCTTTATGTA TATTACAGTT CTTTTAAAA CACTGGAAGA CTCATGTAA 240
 ACTCTAATTG TGAAGGCAGA ATCTNTGCTA ATTTTTCAGA TTA AATTCT CTTTGAAA 298

SEQ ID NO:1829

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02078

SEQUENCE DESCRIPTION:

GATCCCTTAT CCAACATGGT TCTAACCTTC AGTACTAAAG AAGATGCAGT TTCCTTTGCA 60
 GAAAAAATG GATGGAGCTA TGNCATTGAA GAGAGGAAGG TTCCAAAACC CAAGTCCAAG 120
 TCTTATGGTG CAAACTTTTC TTGGAACAAA AGAACAAGAG TATCCACAAA ATAGGTTGGC 180
 ACTGACTATA TCTCTGCTTG ACTGTGAATA AAGTCAGCTG TNCAGTATTT ATAGTCCATG 240
 TATAATAAAT ACATCTCTTA ATCTCCTAAT AAATTGGACC TTAAACTAC AAA 293

SEQ ID NO:1830

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02079

SEQUENCE DESCRIPTION:

GATCANNATT TGAAGAAGNT TTCTAGAAAT TNGGGGTAAG AAGTACTACC AAAATGTAAC 60
 TNCTAATCAA GGGTGATGCA CAGCAAAAGC AATGGACCCC ATCCCTCTAA AGCCTGCCCT 120
 CCTTTGCCCT CAACTGTATA TGCTGGGTAT TTCATTTGTN TTTTATTTT GGAGAAAGCG 180
 NTTTTAACTG CAACTTTCTA TAATGCCAAA NTGACACATC TGTGCAATAG AATGATGTCT 240
 GCTCTAGGGA AACCTTCAA NGCANTAAAA ATGCTGTNTT GAAATGCCAA A 291

SEQ ID NO:1831

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02080

SEQUENCE DESCRIPTION:

GATCTGGGCC TGAATAAGGG TTATCGAATG GTGGTGAATG AAGGTTGAGA TGGTGGACAG 60
 TCTGTCTATC ACGTTCATCT CCATGTTCTN GGAGGTCGGC AAATGCATTG GCCTCCTGGT 120
 TAAGCACGTT TTGGGGATAA TTTTCTCTC TTTAGGCAAT GATTAAGTTA GGCAATTTC 180
 AGTATGTAA GTAACACACT TATTTTGGCC TGTNTATGGA GAGATTCAAG AAATAATTTT 240
 AAAACCGCAT ACATAATAAA AGACATTGTT GCATGGCTTA TAGTCAAA 288

SEQ ID NO:1832

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02081

SEQUENCE DESCRIPTION:

GATCCAGCCT TAATNTTTT CTGACATCCT AGTAATAGCA GACCCTGCAC AAAGTGGATA 60
 TCAGACTTAA TACTGTNAGG AGACAAAATA ATGAGAATAG TTTTACCAA GATAATNAAA 120
 TCTCGCATCA TGTCTGCATT TTACCATAGA TTGGAGTGCA TCCTTAGGAA ACTGAATGTA 180
 ACAAAAACCC AGGACATTTT TGGAAATTGT ATGCTCTCTA GCAACTTTGT GTGAATTTT 240
 ATACAAACAC TGTCTATGA GTTATATAAA ATGTTATAAA ACTAGAAA 288

SEQ ID NO:1833

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02082

SEQUENCE DESCRIPTION:

GATCCTGAGA ACTTCAGGCT CCTGGGCAAC GTGCTGGTCT GTGTGCTGGC CNNNCACTTT 60
 GGCAAAGAAT TCACCCACC AGTGCAGGCT GCCTATNAGA AAGTGGTGGC TGGTGTGGCT 120
 AATGCCCTGG CCCACAAGTA TCACTAAGCT CGCTTTCTTG CTGTCCAATT TCTATTAAAG 180
 GTTCCTTTGT TCCCTAAGTC CAACTACTAA ACTGGGGGAT ATTATGAAGG GCCTTGAGCA 240
 TCTGGATTCT GCCTAATAAA AAACATTTAT TTTCATTGCA AGAAA 285

SEQ ID NO:1834

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02084

SEQUENCE DESCRIPTION:

GATCTCATGG GCTTTCCTG GAGGAAAGGT TTTTGTGTT GTTTTTTTT NAAGAACTTG 60
 AAAGTTGTAA ACAAGAGATG TCTGTAGCTT TTTNCCCAT CTGTAGTGTA TGTNAAGATT 120
 NCAAAACCTG AGAGCACTTT TCCTTTGTTT AGAATTATGA GAAAGGCACT AGATGACTTN 180
 AGGATTNCA TTTNCCCTT TATTGCCTCA TTTCTTGTA CGCCTTGTTG GGGAGGGAAA 240
 TCTGTTTATT TTTNCTACA AATAAAAAGC TAAGATTCTA AA 282

SEQ ID NO:1835

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02085

SEQUENCE DESCRIPTION:

GATCTTAAGC TTTGATAAGA GCTGTGCTGT GGCTGAGTAT GGTGTGTATG TGAAGGTGAC 60
 TTCCATCCAG GACTGGGTTC AGAAGACCAT AGCTGAGAAC TAATGCAAGG CTGGCCGGAA 120
 GCCCTTGCCT GAAAGCAAGN CTTAGCCTG GAAGAGGGCA AAGTGGACGG GAGTGGACAG 180
 GAGTNGATGC GATAAGATNN GGTTTGAAGC TGATGGGTGC CAGCCCTGCA TTGCTGAGTC 240
 AATCAATAAA GAGCTTTCTT TTGACCCAAA AAAANTAAA 279

SEQ ID NO:1836

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02086

SEQUENCE DESCRIPTION:

GATCCATAGT GCTACCTGCA CCTCTGGATT CTGGATTCAC AGACCAAGTC CAAGCCCGTT 60
 CTTACGTCGC CATAAAGGCC CCCGAACGGC ATTCTCGGTA CTTCTGTTTG TTTTGTACA 120
 TTTNATTAGA AAGGACTGTA AAATAGCCAC TTAGACACTT TACCTCTTCA GTATGCAAAT 180
 GTAAATAAAT TGTAATATAG GAAATCTTTT GTTTTAATAT AAGAAATGAGC CTGTCCAATT 240
 TCTGCTGTAC ATTATAAAAA GTTTTATTAC ACAA 275

SEQ ID NO:1837

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02087

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAACCTCTG GTCATCTTTA ACAAGAAAAT CAGCAAGAAC CCTACCTTTA 60
AGTTATTAAA GGACAAAGTC AAGCTTGGA AATGAACATT TGTGTATTTA AAANTTGAAT 120
CCATTCTGCT GACTTCTTAC TTTCAGTCT GTTTATAAAA TGTGTAATGA ATTCTAACAA 180
CTCAAATTTT GCTTTTTTGAC GCNGTATTTT TANGTTANGN AAATATATTT NTGGTATAAC 240
TTTTATGCGA NAAATAAAAT ATATTCTGN 269

SEQ ID NO:1838

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02088

SEQUENCE DESCRIPTION:

GATCTCATTG TTTATTAACC TGTATTCTGT TTACATGTCT TTAACACAGT GGTTCCTAAA 60
TTGTAAGCTC AGGTTCAAAG TGTGGTAAT GCCTGATTCA CAACTTTGAG AAGGTAGCAC 120
TGGAGAGAAT TGGATGGGT GCGGTAATT GGTGATACTT CTTTGAATGT AGATTCCAA 180
TCACATCTTT AGTGTCTGAA TATATCCAAA TGTTTTAGGA TGTATGTTAC TTCTTAGAGA 240
GAAATAAAGC ATTTTGGGA AGAATAAA 268

SEQ ID NO:1839

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02089

SEQUENCE DESCRIPTION:

GATCTATCTA AATATATTAA GTAAAATTAC ACCATTCACT TGTTGGGAAA ATAATCTTTG 60
GTTTGGAAGA TATTAACATA ATGGGCATCT TAGAATCATA AATCAGATGA AATGAGAGAC 120
AATGCAATAT TGTATAATTC CTGGATGATG CAATTGTTTT AATTGANTTT TCAAGTGCCA 180
TTATAAAGTT TTAATAATTA TCAATATGAG TTGGTGCCTA ATTTTNNNTT TCCTAAAAAT 240
AAAATTTTTC CTTTTATGA GTAAA 265

SEQ ID NO:1840

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02090

SEQUENCE DESCRIPTION:

GATCATAAA CCTTCATTCC ATAGGTACCC TTTATCCTCA CAGATACAGA GACACCAAGA 60
AGAATCTGGA CAAATAGGAC TTGCTAAGTT CTCCACAGTT TATTACCATT AGATTATGTC 120

CTTTGTNCT CTGATTATAC TTCTGCATAA GACTGTACAT AAAANTACAC AAGTTTTCCT 180
ATTNTTTTT TGTCTTCATT TCTGAAGATT CCTGTCATGT AAAACTTACA GTAAATAAAT 240
GTGTGTGCTT TTNTCAATAA A 261

SEQ ID NO:1841

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02091

SEQUENCE DESCRIPTION:

GATCAGGTTA GGGCGAGCGC TACCTCTCCA GCCTCAGCTC TCAGTTGCAG CCCTGCTNAT 60
GCCTGCTTGG ACTTGGCCCC TGCCACCTCC NGCCTCAGGT GTCCGCTATC CACCAAAAGG 120
GCTCCCTGAG GGTCTGGGCA AGGGACCTGC TTCTATTAGC CCTTCTCCAT GGCCCTGCCA 180
TGCTCTCCAA ACCACTTTTT GCAGCTTTTT CTAGTTCAAG TTCACCAGAC TCTATAAATA 240
AAACCNGACA GACCATGAAC AAA 263

SEQ ID NO:1842

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02092

SEQUENCE DESCRIPTION:

GATCAGAAAG AAACCTTTTG TAGCAATATC AAGAATCTAG TTTCATCTGA GAACTTCTGA 60
TTAGCTCTCA GTCTTCAGCT CTATTATCT TAGGAGTTTA ATTTGCCCTT CTCTCCCAT 120
CTTCCCTCAG TTCCCATAAA ACCTTCATTA CACATAAAGA TACACGTGGG GGTCAGTGAA 180
TCTGCTTNAN NATCCTGAAA GTTTCTGGGG CTTAAGATTC CAGACTCTGA TTCATTAAAC 240
TATAGTCACC CGTGTCTGT GAAA 264

SEQ ID NO:1843

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02093

SEQUENCE DESCRIPTION:

GATCAAATGT CACACAGCAG TTTCTTGCA AACTTTTCAG CTCCCCATGC TCCAGAATAC 60
CCACCCAAGA AAATAATAGG CTTTAAAACA ATATCGGCTC CTCATCCAAA GAACAACTGC 120
TGATTGAAAC ACCTCATTAG CTGAGTGTAG AGAAGTGCAT CTTATGAAAC AGTCTTAGCA 180
GTGGTAGGTT GGGGAAGGAGA TAGCTGCAAC CAAAAAGAA ATANATATTC TATAAACCTT 240
CAGAAA 246

SEQ ID NO:1844

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02094

SEQUENCE DESCRIPTION:

GATCTGTGTG CATGTNTGTG TTTGTGTATA TATACATATC TAGGGCTAGT ACTTAGTTTC 60
 ACACCCGGGA GCTGGGAGAA AAAACCTGTA CAGTTGTCTT TCTCTNATTT TNAATAAAAT 120
 AGAAAAATCG CGCACTTGCG GTCCCCCCCC CACCCCTTT TTTAAACAAG TGTTACTNNN 180
 NCCGGGAAAA TTTTCTGTC TTTGTAATTT TAAAACTTTA AAATAAATTG GAAAAGGGAG 240
 AAA 243

SEQ ID NO:1845

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02095

SEQUENCE DESCRIPTION:

GATCTAGTGA ACATTCGACC TCCATTACGG AGAGTTTCCT ATGTTTCACT GTGCAAATAT 60
 ATCTGCTATT CTCATACTC TGTAACAGTT GCATTGACTG TCACATAATG CTCATACTTA 120
 TCTAATGTTG AGTTATTAAT ATGTTATTAT TAAATAGAGA AATATGATTT GTGTATTATA 180
 ATTCAAAGGC ATTTCTTTTC TGCATGTTCT AAATAAAAAG CATTATTATT TGCTGAGAAA 240

SEQ ID NO:1846

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02096

SEQUENCE DESCRIPTION:

GATCTAAGCA GCGTTCACAC AGCCCCCTCT AGATTCTTGG AGTCCGCAG AGCTTACTAT 60
 ACGCGGTCTG TCCTAATCTT TGTGGTGTTC GCTATCTCTT GTGTCAAATC TGGTGAACGC 120
 TACGCTTACA TATATTGTCT TTGTGCTGCT GTNTGACAAA CGCAATGCAA AAACAATCCT 180
 CTTTCTCTCT CTTAATGCAT GATACAGAAT AATAATAAGA NTTTCATCTT TAAATGAAA 239

SEQ ID NO:1847

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02097

SEQUENCE DESCRIPTION:

GATCCATCCT CTCTCCTAGC TGAGTAAATC CGGGTCTCTA GGATGCCAGA GCAGCGCACA 60
 CAAGCTGGGA AATCCTCAGG GCTCCTACCA GCAGGACTGC CTCGCTGCCC CACCTCCCGC 120
 TCCTTGGCCT GTCCCCAGAT TCCTTCCCTG GTTGACTTGA CTCATGCTTG TTTCACTTTC 180
 ACATGGAATT TCCAGTTAT GAAATTAATA AAAATCAATG GTTCCACAA A 231

SEQ ID NO:1848

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02098

SEQUENCE DESCRIPTION:

GATCCAAAAT GCTGACAGGT TCAAACAAAA TTGGAATTGA AAATCAGAGT GCGTTCAAGA 60
 GTATCAAACA ATACTATCTT GTTACTTGCT TATTACCTTA GTAGACTGGA AGCAACACTT 120
 CACACAAAAA AAGGGTTTGG ATGTAATTTT GGATAAGAAG AGATGTTTCT GTAAAGTCTT 180
 TCCTGAGANG CATATTATTT GAGAAAAACA CATATTTCTG TTTTAGTAA A 231

SEQ ID NO:1849

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02099

SEQUENCE DESCRIPTION:

GATCTACCAT GTAAAATGTT GTAGAGATAG AGCCATATAA CGTCACGTTT CAAAACACTG 60
 TCTACAGTTT TGCTTCTCCT ATTAGCCATA TGATAATTGG GCTATGTAGT ATCAATATTT 120
 ACTTTAATCA CAAAGGATGG TTTCTGAAA TAATTGTAT TGATTGAGGC CTATGAACTG 180
 ACCTGAATTG GAAAGGATGT GATTAATATA AATAATAGCA GATATAAA 228

SEQ ID NO:1850

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02100

SEQUENCE DESCRIPTION:

GATCTACCGG CCCCCTGGG GTGCCCTTGG GGACTACCTC TCCTTCACCA TACCCCTGGG 60
 CACCCCCTGA CAACTTCTGC ACATACTGGG GCCCTGCTTA TTNTCCAGG ACAGGCTCCT 120
 TAAAGCAGAG GAGCCNGTNC TGGGAGCCCC TTCTCAAACCT CCTAAGACTT GTTTTCATGT 180
 CCCACGTTCT CTGCTGACAT CCCCCAATAA AGGACCCTAA CTTTNGGNNN TNAAAA 236

SEQ ID NO:1851

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02101

SEQUENCE DESCRIPTION:

GATCTATGGT TTCTGCCTAC CCAGGATAGT CTTGTCTCTA GACAATGTAT TGATGATGCA 60
 AATGTTCTGG AACTAAATAG TGGTGATGGT GGCACAACAC TGTGAATGTA CTAAATGTCA 120
 CTGATTTGTA CGTATTTAAT ATGAATTAAA TGTAAAAATG GTGAATTATA TTTATGTATA 180
 TTTNACCATA ATAAAAATAT GCATTGGAAG ATGCATTTTT TGTGAAA 227

SEQ ID NO:1852

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02102

SEQUENCE DESCRIPTION:

GATCTTTGGA CCAGTTTCTA GCAAAGTTGT GTTTGAAAGA TACTCTATTA AAGAAGACTG 60
 TGGAAATCTTT TTATCGGTGC CCATTATATC CTTAAGTTTG GATATTTAGC TGACCTTCGC 120
 TTTAACATAG GTCTAATTTA TTTGCCGTGT CATTTTCCAT ACAAATCAGT TGATTAAAA 180
 AAGTTCATTT CTCATACTGT GCATTAAAAT AAAAATTGA ACAATTAAA 229

SEQ ID NO:1853

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02103

SEQUENCE DESCRIPTION:

GATCTCCTGT TTTTTCAGG CTCCTAAAGT AACATCAGCC ATNTTNAGA TTGGTTCTGT 60
 TTTCGTACCT TCCCACTGGC CTCAAGTGAG CCAAGAAACA CTGCCTGCCC TCTGTCTGTC 120
 TTCTCCTAAT TCTGCAGGTG GAGGTTGCTA GTCTAGTTTC CTTTTTGAGA TACTATTTTC 180
 ATTTTGTGA GCCTCTTGT AATAAAATGG TACATTCTA TAAA 224

SEQ ID NO:1854

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02104

SEQUENCE DESCRIPTION:

GATCAAGGCC GGACCCCACT GCCCACTGC CCAACTGATA GCCACGCTGA NNGAATGGAA 60
 GGAAAAATTG CTTGGACCTG CAAGCCCCGC TGTACAAGAA AATAATTAAG AAACTTTTGG 120
 AGAGTTAGCT ACTAGCTGCC TACGTGTGTN CATTTGCTAT ATAGCATACT TCTTTTTTCC 180
 AGTTTCAATC TAACTGTGAA AGAACTTCTG ATATTTTGTG TTN 223

SEQ ID NO:1855

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02105

SEQUENCE DESCRIPTION:

GATCCTAGTA ATTGCCTAGA AATATCTTTC TCTTACCTGT TATTTATCAA TTTTCCCAG 60
 TATTTTATA CGGAAAAAAT TGTATTGAAA ACACTTAGTA TGCAGTTGAT AAGAGGAATT 120
 TGGTATAATT ATGGTGGGTG ATTATTTTTT ATACTGTATG TGCCAAAGCT TTACTACTGT 180
 GGAAAGACAA CTGTTTTAAT AAAAGATTTA CATTCCAAAA AAACAAA 227

SEQ ID NO:1856

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02106

SEQUENCE DESCRIPTION:

GATCTATACA AAGTCTTTGA GAGGTGTAA ATATGGTTAT TTATGCACTG TGGGATGTGT 60

TCTTCTTTCT CTGTATTCCG ATACAAAGTG TTGTATCAAA GTGTGATATA CAANGTGTAC 120
 CAACATAAGT GTTGGTAGCA CNTAAGACTT ATACTGCGCT TCTGATAGTA TTCCTTTATA 180
 CACAGTGGAT TGATTATAAA TAAATAGATG TGTCTTAAA 219

SEQ ID NO:1857

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02107

SEQUENCE DESCRIPTION:

GATCAAGAAA GACAAAAAGC CAGCCTGCAG CAAGCACTTT GGAGAGCAAA TCTGNAAAGA 60
 GAGTAACGCG GAGTGTCAAG AGGTGTGCAG AAAATCCAAA GAAGGCTGAG GACAATGTGT 120
 GTGTCAAGAA AATAAGAACC AGAAGTCATA GGGACAGTGA AGATATTGA CAGAAAAATC 180
 GAACTGGGAA AAATATAATA AAGTTAGTTT TGTGATAAA 219

SEQ ID NO:1858

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02108

SEQUENCE DESCRIPTION:

GATCTGTCGG AACCAAGACA CAAAAGCAGC AAGAAGCGGG GAGAGAGAGG GATAGAAAAC 60
 AAGCGCAGGA GAGCTGCGA ACGCAAAANT GAATGAGGGC TTTTGTGGC TGGGGATGGG 120
 TTTTGGTTTT GGGGTTTTT TTTNAAAT GTTTGACTT CGTACAGGGT ACTTTTCCC 180
 AACCTCATCT NTCAGAAATC CATGTGGGNT TCCTGGAAA 219

SEQ ID NO:1859

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02110

SEQUENCE DESCRIPTION:

GATCTGAAGA AATTACAAA CATTAAAATG AGANAAATTT GCGCTAATGA TGCAATTCCC 60
 AAGACGTGCA AGAGGAAAAC TATTATACT GTAGACCAAG ATTTGGGGGA ATTGGAAC TA 120
 AACGATGAAT CAAGTGATTC AGATGAGGAA ATGACTGCAG TGGCCTAATT GTCTTCACTT 180
 GAATTGAAAA TAAATAATTT GAGAGCTTCA AATTAAA 217

SEQ ID NO:1860

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02111

SEQUENCE DESCRIPTION:

GATCCATTC TTTAAATAC TGACATATAG AGTTGTACCT TATATAGAAT ATAGTTGTAT 60
 CTTGAAGTCA ACATATTTAA TTATTCTCAA AATTATGTAT TTNCAGATTG TACTTGTAAG 120

TTTCAAAGAA AAATTACCGT CTTTTCATAT TGACCTGGAA ACTAAATAGG ATGTGATTCA 180
GCTACATTAA TTTCTTAATA CAATCTAGGA AAGAAA 216

SEQ ID NO:1861

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02112

SEQUENCE DESCRIPTION:

GATCCTTTTC TTGAAAGAAT AACAGAAAAT GTGTCATCCA TTTTTCAGAA TATAACCACT 60
CAAGCTACTG GCACATAGTG AAAGATTACT TCTGACATTC CATNCTCTT CTTTGGAAAA 120
TTAGTATNGT AATTAAATGT ACTTTTGAA AATTAATAGA ATTATTTAAA TTACAGTATA 180
TGTNGCAAAA TATATCACTT TTGATACAAT AAA 213

SEQ ID NO:1862

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02113

SEQUENCE DESCRIPTION:

GATCTATCTC ATCAAACAAC ACAATGAAGA TATTTTAGAG TACAAAAGAA GAAATGGGCT 60
GGAATAAACT TTTGAAACAC TAATGTAGTA TGCTCCGTAT AGTGATTGTA GCTGTTCTC 120
TGGATTACCC ATCTGTTGAG TTGTAAATGT GNGANAAAAA GTTATATGTG AATATATATC 180
AAGCCAGCAT TTGTATTTTG CATCATTAAT 210

SEQ ID NO:1863

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02115

SEQUENCE DESCRIPTION:

GATCGGGGCT GCCAGAGGGN TAGAAGCGAG GGCACCAGCA GTTGTGGGTG GGGAGCAANG 60
GAAGAGAGAA ACTCTTCAGC GAATCCTTCT AGTACTAGTG GAGAGTTTGA CTGTGAATTA 120
ATTTTATGCC ATAAAAGACC AACCCAGTTC TGTTNNNNC TGTAGCATCT TGAAAAGAAA 180
AATTATAATA AAGCCCCAAA ATTAAGAAA 209

SEQ ID NO:1864

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02116

SEQUENCE DESCRIPTION:

GATCTGGAGC AACAGCTAGG AAATATCATT AATTCTGCTC TTCAGAGATG TAAAAAATAA 60
ATTACACGTG GGAGCTTTCC AAAGAAATGG AAATTGATGG GAAATTATTT GTCAAGCAAA 120
TGTTTAAAT CCAAATGAGA ACTAAATAAA GTGTTGAACA TCAACTGGGG AATTGAAGCC 180

AATAAACCTT CCTTCTTAAC CATTCAAA

208

SEQ ID NO:1865

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02117

SEQUENCE DESCRIPTION:

GATCTATACT TAGAATGCAA TGTNGACAGA GGGCAGTTAA AATATCCAAG ATGTATTCCA 60
 AGACAAAGCA AACAAACAAC TGGAAGTGGT AATCAATTCA ACAGGCCTTC TGAATTNTCT 120
 GAAGCNAAG CAACGTTTGC CATNNGATAT TTGTGACACT TTGGCAAATG GAAAAATAAA 180
 CCAATTTATA CGTGCAATAA A 201

SEQ ID NO:1866

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02118

SEQUENCE DESCRIPTION:

GATCATGAAG GATCCACAC TTCCCCTTGC ATTCCTTCT TAACTCTCTG TTACACGTCA 60
 TTGAACTAC ACTTTTTTGG TCTGTTTTG TGCTAGACTG TAAGTTCCTT GGGGGCAGGG 120
 CCTTTGTCTG TCTCATCTCT GTATTCCCAA ATGCCTAACA GTACAGAGCC ATGACTCAAT 180
 AAATACATGT TAAATGGAAA 200

SEQ ID NO:1867

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02119

SEQUENCE DESCRIPTION:

GATCACATTT TGAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
 AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGAACA AAATATTGGT 120
 CATCTAAAN CTTTCTGTTT NCTGGGGTCT GGGAAAATAG AAAATAAGAT TTCAAATATT 180
 AAATAAGCTT AANGGCACCA AA 202

SEQ ID NO:1868

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02120

SEQUENCE DESCRIPTION:

GATCAGGCCC TTCTTCCCAC AGCAATAGTC CCAATACGT AGATTTTTGC TCTTCTGTAT 60
 GTGACAACAT TTTTGTACAT TATGTTATTG GAATTNCTT TCATACATTA TATTCCTCTA 120
 AAATCTCAA GCAGACGTGA GTGTGACTTT TTGAAAAAAG TATAGGATAA ATTACATTAA 180
 AATAGCACAT GATTTTCAAA 200

SEQ ID NO:1869

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02121

SEQUENCE DESCRIPTION:

GATCTINTNG TTCATTGTAT TCTTTTNTC TCAAGAGTTC CATTTAATGG AAATAAAACG 60
GTATAATTAA TAATTGTCTA GGGGGGAAAA ATGAAGCAAA TNTCATTGGA TATTTTAAAA 120
GGTCTCCACA GAGTTTATGC CATATTGGAA TTTTGTGTA TAATTGTCAA ATAAATATTT 180
TGGTGANGCA TAAA 194

SEQ ID NO:1870

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02122

SEQUENCE DESCRIPTION:

GATCCAATAC TATTAGTTT ATTATTGAAA TTGGAAGGAT TCATTGAGCA GCATAGAAGT 60
TTGTTTACAT GTTACTTTGA GATGCTAGGT ATTTGTGGAA TAAAAAGAA TCAGGCTCTT 120
TTGTACTNAN TTTTAAATC TGTGATGCTT NTCAAATTA ATTCATAATA AATTGATGCA 180
ATTTCATAAA 190

SEQ ID NO:1871

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02123

SEQUENCE DESCRIPTION:

GATCGAACAG TTTTGAAGCT ACTGTGTGTG TGAATGAACA CTCTTGCTTT ATTCCAGAAT 60
GCTGTACATC TATTTTGGAT TGTATATTGT GTTTGTGTAT TTACGCTTTG ATTCANNAGT 120
AACTTCTTAT GGAATTNATT TGCATTGAAC ACAAAGTGA AATAAAAAGA AATGGCTGAA 180
AGAGCAAA 188

SEQ ID NO:1872

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02124

SEQUENCE DESCRIPTION:

GATCCTATTT ATTTGTTTAG GCCATCTTAA ATTTCTTTCA GCAGTGTGTT GTAGTTTCCA 60
TTAGAGATTT TCCATGTCNT TTGTTAAGTT TATTCCTAGG TATTTATTT TTTATGGTAT 120
TNTATTATAA TCCTNNGATG TCTATTATAT AGAAATATAA TTNATTTTNG TTATTGACTG 180
NNNN 184

SEQ ID NO:1873

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02126

SEQUENCE DESCRIPTION:

GATCCAAGTN CTGACTTTTC CCCCTGACAG CTGTGTGACC TTCGTGAAGT CGCCAAACCT 60
 CAAATGAGCC CCAGTCATTG CTAGTAAGAC CTGCCTTTGA GTTGGTATGA TGTTCAGTT 120
 AGATAACAAA ATGTTTATAC CCATTAGAAC AGAGAATAAA TAGAACTACA TTTCTTGCAA 180
 A 181

SEQ ID NO:1874

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02127

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTCTCATCT CAAAAAATA TGTAAGTGA TAGATATGTT AAATAGCTNN 60
 TATGTATTTT GCAATGTGTA GTGTATATAT ATAAACATCA CACAGTACAC CATAAATATA 120
 TTTAATTTT GTCAATTACT CTTTAAACCT TAATAAGTT GATAAACAT TCTTTTTTAA 180
 A 181

SEQ ID NO:1875

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02128

SEQUENCE DESCRIPTION:

GATCAGGTTA GCAAATGATG TAAAGAAGC TTTATTGTCT AGTTGTTTTT TTTCCCCCAA 60
 GACAAAGGCA AGTTCCCTA AGTTGAGTT GATAGTTATT AAAAAGAAAA CAAAACAAAA 120
 AAAAGGCAAG GCACAACAAA AAAATATCCT GGGCAATAAA AAAANTATTT TAAACCAA 179

SEQ ID NO:1876

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02129

SEQUENCE DESCRIPTION:

GATCCGGGAG CACACCGTTT CCTGATTGCT CAGGGACTCA TCTTCCCTC CTTGGTGATT 60
 CCGCAGTGAG AGAGTGCTG GGGCATGGAA GGCAAGATTG TGTCCCATTC CCCCAGTGCG 120
 GCCAGCTCCG CGCCAGGATG GCGANGGAAC TCAATAAAGT GCTTTGAAAA TGCTGAAA 178

SEQ ID NO:1877

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02130

SEQUENCE DESCRIPTION:

GATCATTCTC CGAAAGCAAC TCCTGACAAT TAAGCATTTT TTTCTCCAAA TACAAAGTAT 60
ATTCTCTTTA TTGGAAAATA AATTAATAAA TATATTCTGT ATTTNNCTC TCCGTGAAAA 120
ACAAAAGAGC CTCTGACATT ACTGTCTCTC AGTGTGGTT CAGATTGAGG CTTN 175

SEQ ID NO:1878

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02131

SEQUENCE DESCRIPTION:

GATCAATCCT TCTTATGTTT GCTTTAATGT GTATTGAAGA AAAGCACTTT TAAAAAGTA 60
CTCTTTAAGA GTGAAATAAT TAAAAACCAC TGAACATTG CTTGTTTTTC TAAAGTTGT 120
CACATATATG TAATTAGCA GTCCAAAGAA CAAGAAATTG TTTCTTTTCA AA 172

SEQ ID NO:1879

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02132

SEQUENCE DESCRIPTION:

GATCTGATTG TTAAAAAGTA CACAGCACCT CCCTCCCCAC TCTCTCTTGC TCCTGCTTTC 60
ATCAAGTGAA AACTCCCTGA GGCCTCCTCA GAAGCTGAGT AGAGGCCAGC ACTATGCTTC 120
CTGTACAGCC TGTGGAACCA TGAGGCAATT AAACCTCTTT TCTTTATAAA 170

SEQ ID NO:1880

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02133

SEQUENCE DESCRIPTION:

GATCAGAAAA ATTCATCTTT TTTAACCCTG CCCTAATTTT TCTTGAGGAA TTAAATAGAG 60
CAAACTATTT TCAGGTTATG CTTACAATAA AATATACTTA AGAAAATGAC TGAAGATGTA 120
TGTTTTTGAA TGTTTTGATT AAATAAATGT ACACATTTAG AACACAAA 168

SEQ ID NO:1881

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02134

SEQUENCE DESCRIPTION:

GATCAGCCTC CCTGTAAGCC AGTTATCAGT ATCCAAGTGC TTAAACACAG GCTTCTCAGA 60
AGAAATCATT TTTATTCCTA CCATTATTTT ATACCAAAGC ATCATTATGT GCTACAGTTC 120

CAATTTCTTA CACAAGAATG AAAAGGGTTA CCAATGCAGC AAGTTAAA

168

SEQ ID NO:1882

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02135

SEQUENCE DESCRIPTION:

GATCTTACTG TAAGTTGAAG GGAGTTTTCG CTTAACTCAT GGATTGTGCA AGAATGAACT 60
GCTGTTGGGT TTACTGACT GTCGATGGAT TGTGGTGTGG TGTATCTNAA GGCTATTGAA 120
TGCAACTTAC AATGCTTAGG TAAAAATCTT TATNCTTTTA GTATAAA 167

SEQ ID NO:1883

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02136

SEQUENCE DESCRIPTION:

GATCCTTGAT GAGCCAACAT TGCAGTGTGG ATACATATCT ATGTTTACGC GCTATTAGAA 60
CAGAAGGCGC TGTATATAGA AATGTTGCTT TGAAGCAATA TTTGCAAAAC ACNCAGACTN 120
CAGNATCTGT ATTTGAAAAA AATAAACAG GTTCTTGTG CTAAG 165

SEQ ID NO:1884

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02137

SEQUENCE DESCRIPTION:

GATCTGACCT CCACGGAGCC GCTGTCCCG NCCCCCTTGC TTCCCGTCTG TCTGTCCTGT 60
CTGATTCTNT TAGGTGTCAT GTTCTTTTTT CTGTCTTGTG TTCAACTTTT TTTAAAACTA 120
GATTGCTTTG AAAACATGAC TCAATAAAAG TTTCTGNCC AATTAAAA 168

SEQ ID NO:1885

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02138

SEQUENCE DESCRIPTION:

GATCAGGATG GCTTCACAAG CCAGCTGTTG GGTTTGCTAT GTCAGTGTGG CTCAGTCACA 60
TCCCTGCGTG TATACTGTCT GCGGGGCACA TATGATCCA TTTAGAGCTA AAGGAATCAG 120
TGTAACACTAC AGCTAATCCT AATAAATCCG ATGTTTTTCGG AAA 163

SEQ ID NO:1886

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02139

SEQUENCE DESCRIPTION:

GATCTAGCAG CATGCAAACA CATCACCTAA ACTACAAAAG AAAGGTCCTC ACTGTCTCTA 60
AAAAATAAAC TCATTAACCT TGAGTTATTT GCAGACAGCC AAATCACCCA GGGCAACTTT 120
AAAGAGTCAG AAAATAAAAC TTTCCCGTTG TATGACAAA 159

SEQ ID NO:1887

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02140

SEQUENCE DESCRIPTION:

GATCATGGAG GAAAAAGGTA CTGGATAAAA GTAAACTTCA AACCTTAGGG CGGGANACTA 60
AAACCAAAAT ACATGTATTA TTTATAGAAA ATATTTTCTG TTTAATCTT TTCTNITTAA 120
ACAAGGACTC ATACTTAAAA AAATGTTTAG CAAA 154

SEQ ID NO:1888

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02141

SEQUENCE DESCRIPTION:

GATCTCTGAT GACCTAACCT AAGCAAAACC ACTGAGCTTC TGGAAGACA ACTAGGATAC 60
TTTCTACTTT TTCTAGCTAC AATATCTTCA TACAATGACA AGTATGATGA TTGCTATCA 120
AAATAAATTG AAATATAATG CAAACCATAA A 151

SEQ ID NO:1889

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02142

SEQUENCE DESCRIPTION:

GATCTATATT CTCTTAATT TTTATGGCTA TATTTAATGT TTTCCATCAT TGTGCCTTTA 60
AAAAGTATAT GTACATGTAT GCATAAATTT ATGTGAAGTT ATATATANGN NTCCGTTATT 120
CCAGATTAAA GTTTATCTTT AGTAATCAAA 150

SEQ ID NO:1890

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02143

SEQUENCE DESCRIPTION:

GATCAAAAAT ATGTGACCTT AATGAGATTT TTATGATTTT TAAAGTAACA ATAAAAGCAG 60
TTTTTAGAGT TGAGTTCCAG AGAGGGCAGG GCAATGGCAG TNACATGTTT GTCATTTTAA 120

TAATAAATAA CATCTATTGA GTNCTTAA

149

SEQ ID NO:1891

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02144

SEQUENCE DESCRIPTION:

GATCCGCGGG GACCCTGCCG AGGGGGCTGT CATGCGGTTT CCAAGGTGCA CATTNCCAC 60
GGAAACAGAA CTCGATGCAC TGANCTGCTC CGCCAGGANA GTGAGCGTGT AGGTNCCTGA 120
GGAATAAAAT GTTCCGATGA TGTGGAAA 148

SEQ ID NO:1892

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02145

SEQUENCE DESCRIPTION:

GATCCCCGTT CTTCAAGCTT CTCTGCTCAG TGTCTACTAA CGACCGACAT TTGCTAATGT 60
AAATAATAGT AATNATTGA GAATTCTAAT TCTTTTACAC AGTCTGTTTT TAATCTATTT 120
TAATTAAATA AAATCTATGA CTCTAAA 147

SEQ ID NO:1893

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02146

SEQUENCE DESCRIPTION:

GATCTGGGAG TAAACTTAAC ATTCAGTGTG TCTCTGCTCT GCATCCGCCA TTTGTGTGTG 60
TTTCTGGACT GTGGGCTGTG TGTACCTTGG TTGGTGACTC AGTGAGAAGA AGCAGGAATN 120
CCAAAGATAC TGTGAATNTT CTGAAA 146

SEQ ID NO:1894

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02147

SEQUENCE DESCRIPTION:

GATCTAAATG TCTAGTTTGG TATTCTTTTG TGTGTGTTCA CTGTTTCTCA GTATTACCAC 60
TTGAATAATT CTCTGTACAG GGGGGTTTGT GCTATACACT GGGATGTCTA ATTGCAGCAA 120
TAAAGCCTTT CTTTAAAAAG GAAA 144

SEQ ID NO:1895

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02148

SEQUENCE DESCRIPTION:

GATCTTGGAA ATGCTTGAAG ACCACAAGGC TGAAAAGTGC TTTGCTGGAG TCCTGTTCTC 60
AGAGCTCCAC AGAAGACACG TGTTTTTGTA TCTTTAAAGA CTTGATGAAT AAACACTTTT 120
TCTGGTCAAT GTCAAANNA A 141

SEQ ID NO:1896

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02149

SEQUENCE DESCRIPTION:

GATCCAGATA AACTTTCCTG TCATGTGTTA GAACTTTATT ATTATTAATA TTGTTAAACT 60
TCTGTGCTGT TCCTGTGAAT CTCCAAATTT TGTACCTTGT TCTAAGCTAA TATATAGCAA 120
TTAAAAAGAG AGAAAGAGGA AA 142

SEQ ID NO:1897

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02150

SEQUENCE DESCRIPTION:

GATCAAAGTG TGGGATGNGC TGCAAGACGT AGAACCTACC TGCCCTGCCC CCGTCCCCNC 60
CCTTCCTTAT TTATTCCTGC TGCCCCAGAA CATAGGTCTT GGAATAAAAT GGCTGGTTCT 120
TTTGTTTTCC AAA 133

SEQ ID NO:1898

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02151

SEQUENCE DESCRIPTION:

GATCTAAGTT GCATCTTTAA TCCTGGTGGT CTTGCCTTCT GATTTTAAAT TTGTATCCTT 60
TTCTATTAAG ATATATTTGT CATTTTCTCT TGAATATGTA TTAAATATC CCAAGCAATC 120
CAGTAACAAA 130

SEQ ID NO:1899

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02152

SEQUENCE DESCRIPTION:

GATCGAGGAG ATGCCCTCTG AACGCCTGTC CCGGAGCACC CGCCAGCGGG CAGCCTGTGC 60
CCAGTCAAC GACTTCCTCC AGGAGTATGG CACTCAGGGG TGCCAGGTCTN TNAGGGCTGC 120

CCTCCCACNN CCGCTGGGAG GAACCTNAAC CTGGGAACCA TGAAGCTGGA AGCACTGCTG 180
 TGTCCGCTTT NATGAACACA GCCTGGGACC AGGGCATATN AAAGGCTTTT GGCAGCAAAG 240
 TGTCAAA 247

SEQ ID NO:1900

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02153

SEQUENCE DESCRIPTION:

GATCTTCCTG CTACCCTCTT GGATTCTAAG TGGTTCCAAG CTTAACTTGA GACCTTCCCT 60
 TCAAATCTAA AATTGGCAAA AAGTCACTTA AAATAGTGGA CTTCTGTAAT AAAGGTTGCC 120
 TAAAATAACA AA 132

SEQ ID NO:1901

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02154

SEQUENCE DESCRIPTION:

GATCTACAGG TTNCAATTCA ACCTGTTTCT AGGTTTTTTT GTAAATTTAG TTTTGATTAA 60
 GCATTATAAG CATTTGAGTC TATAAACTTT ATAGTAGCAT CTTTCAGAAT AAACATTTTT 120
 AATTGAAA 128

SEQ ID NO:1902

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02155

SEQUENCE DESCRIPTION:

GATCCATGAG TTTGCCCTGG TTCACTGGC CCAAGTGGTT TGTGCTAACC ACGTCTGTCT 60
 TCACAGCTCT GTGTTGCCAT GTGTGCTGAA CAAAAAATAA AAATTATTAT TGATTTTATA 120
 TTTCAGGGGA AA 132

SEQ ID NO:1903

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02156

SEQUENCE DESCRIPTION:

GATCCAAGAC AGAATAATGA ATGGACTCAA ACTGCCTTGG CTTCAGGGGA GTCCCGTCAG 60
 GNCGTTGAGG ACTTTTCGAC CAATTCAACC CTTTGCCCCA CCTTTATTAA AATCTTAAAC 120
 AACGGAAA 128

SEQ ID NO:1904

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02157

SEQUENCE DESCRIPTION:

GATCCACAGG GGTGGTGTCA AATGCTATTG AAATTGTGTT GAATTGTATG CTTTTTCACT 60
TTTGATAAAT AAACATGTAA AAATGTTTCA AAAAAATAAT AAAATAAATA AATATGAAAC 120
CTTAAA 126

SEQ ID NO:1905

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02158

SEQUENCE DESCRIPTION:

GATCTACAGA TGAATATTTA ACTCAATAGA AAAATTATTT TAGAACACAT TGTATTGGTA 60
TTACAACCAG ATTATATTCT TGACGTTGAC TTCATTAAAA TTATCTACAA TTCCTAATA 120
AA 122

SEQ ID NO:1906

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02159

SEQUENCE DESCRIPTION:

GATCTCATGG ATACAAACAG GTGACCTTGC CAATTGGTGC TTTTGTGTG TTTAAGAAAA 60
GAACAGTAGT AACCTTGCTC CCTGGNTACC AATAAAAAAT CTATTATTTT TTTAAAGAA 120
A 121

SEQ ID NO:1907

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02160

SEQUENCE DESCRIPTION:

GATCTGACCC CTGTCAGATG NAAATGATTC ACAGCTCTGG CAGTTCCCAA GTCTGGGGAG 60
GGGTATAGGT TTGAAAGGCT GTTGAAAGA GGAATGTTTA ATAAAGGCTT TGATTTAA 119

SEQ ID NO:1908

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02161

SEQUENCE DESCRIPTION:

GATCCCAGCT GGCCCTATG TTGTGTTCTG NGAAGGAGG CTTTGCTGTG AACTGCAGTG 60

TTTCATACGA ACCATCTTTC CTAGTGCATG AGAAATAAAG ATTATTTAAG TAATGAGGAA 120
A 121

SEQ ID NO:1909

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02162

SEQUENCE DESCRIPTION:

GATCTCACTT TTCAGGAAAC TAAAAATTA CCCATTATTG GGAAGCTTAA ATGAATTGAA 60
GCTATGCAAG TCTTTTATAT TATTAAATAT TAAAAAGTAA ACCTGTACTA ATCAAA 116

SEQ ID NO:1910

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02163

SEQUENCE DESCRIPTION:

GATCGATATG CTCATAAAG TGCTCAATTA TATTTNCTGT ATTTTGTATG NTGTATTTTC 60
CAAGACGTAT ATTATTTTAC TATTAAAGAA AAAAATCATT TTTTTTCCC GAGAAA 116

SEQ ID NO:1911

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02164

SEQUENCE DESCRIPTION:

GATCCGGGCA TGGGAGACCC CACTTTAGAA AGGGTCGTCA CTCCTTTAAT CCTCTACTCA 60
ACAATGTACT CTTTACTTT TATATTAAAA AAAATAAAAT AAATATGTGC CTAAACCTC 120
CAAA 124

SEQ ID NO:1912

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02165

SEQUENCE DESCRIPTION:

GATCCACTTC TACTTAATGA GTAGTAAATA TATTCNTTT TCCTTATGAT TTTCTTACTA 60
TTNCTTTAG CTTGCTTTAT TATAAGANTA TAGCATATAA TATAAATAAA ATAAA 115

SEQ ID NO:1913

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02166

SEQUENCE DESCRIPTION:

GATCCAGAAA TTGTGAACAA TGTTCGATTT AGTAGCGTGA CTTGCCTTTC CCTTTAAAAA 60
CATCTTTTAC AAATCTGTCT TGGAAATAAG TCTATTTTCT GCCTTTTGGA AA 112

SEQ ID NO:1914

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02167

SEQUENCE DESCRIPTION:

GATCCTAATT GCCTAGAAAT ATCTTTCTCT TACCTGTTAT TTATCAATTT TNCCCAGTAT 60
TTTTATACGG AAAAAATTGT ATTGAAAACA CTTAGTATGC AGTTGANNNN GN 112

SEQ ID NO:1915

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02168

SEQUENCE DESCRIPTION:

GATCAACCGT GAAGCGTAAC AAATTCTGTA TTTAGTTTTT TTTCTGTTG TGGTGGTTTT 60
TGTTTTGTTT TTTGTTTTTG TAAGATTCTA AATAAATNAA ATACGAGTCA AA 112

SEQ ID NO:1916

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02169

SEQUENCE DESCRIPTION:

GATCAAGACT NCAGTTTGGG AATGCATGGA CACCGGATTT GTTCTTATT CCTTCACTTT 60
TGGGGAAAAT CTCNCCNTNT TAAAAAGTG ATAAATTTGG TGTTAGGTCA AA 112

SEQ ID NO:1917

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02170

SEQUENCE DESCRIPTION:

GATCAACGCG ACTGTATTTT GAAACATTCC AGGAAGGTTA CTTCTTGTC AACTTGCCTG 60
GCAGTGTGTTG TTCAAANCTT GTATTTAATA AATGANCATC TGACTTTACA AA 112

SEQ ID NO:1918

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02171

SEQUENCE DESCRIPTION:

GATCTATCTT AAGAAGTGAC CAGGAAAGAG GTTCATTGAA ATAATCATGC ATGAAGCGCC 60
AAAGATGCAC CATGTAGAAT TTTCACCTTG TACTGGCAGG CTCGTTTAC CTGATTCTAG 120
AATATTTAAG AATCTAAAAA TAAAGGGCAA CTCTGACTTA AA 162

SEQ ID NO:1919

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02172

SEQUENCE DESCRIPTION:

GATCAGGGAA CTAAGCATT TGTGAATTCA CCAGCAAGAT GTACAGNACG CCTGTNTTTA 60
CATTGTTTT ATGGAAC TAG CAGAATAAAN CATCTATTTT AAAAATGCAA A 111

SEQ ID NO:1920

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02173

SEQUENCE DESCRIPTION:

GATCTGGGAG GAAGCCGCCT ACTCCAACCC CAGCCTACCT NTGGTGCACA NATCCGTCCC 60
ATAGCAAAGC CCCTGCACAG ACTCCAGCCG AGCCCACACC TGGNTATNAG GTGGGCCAGC 120
GGAAGCGCCT CATCTCCTCG GTGGAGGACT TCACCGAGTT TNTNTGAGGC CGGGGCCCTC 180
CCTCCTGCAC TGGCCTTGGA CGGTATTGCC TGTCAGTGAA ATAAATAAAG TCCTGACCCT 240
AGTGCACAGA CATAGAGGCA CAGATTGCAG TCAAA 275

SEQ ID NO:1921

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02174

SEQUENCE DESCRIPTION:

GATCAGGACA GAGACTTGGG GGCCATCCTG CCCCTCCAAC CCGGACATGT GTACCTCAGC 60
TTTTTCCTC ACGTTGCATC AATAAAGCTT CTGTGTTTGG AACAGNTAAA CAAA 114

SEQ ID NO:1922

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02175

SEQUENCE DESCRIPTION:

GATCCCAAGC NTCCCGTCCC TTGGAAAGTN CAGCCAGAAT CTNCGTCCTG ACCCCCGACA 60
GCCCAGCCTA GCCCACTTGT CATCCATAAA GCAAGCTCAA CCTTGAAA 108

SEQ ID NO:1923

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02176

SEQUENCE DESCRIPTION:

GATCCCCCAG GTTCAGACTG AGCTCCCCCT TCCCAGTAGC TCTTGCATCC TCCTCCCAAC 60
TCTAGCCTGA NTNCTTNCA ATAAAAATA CAATTCAAGT TGCTTCTCAT GGATGGCACT 120
GCTTTCCTGA GGA CTCAAGG TGCCAAGATG GAGGGGCTGA CTCAGTCCAG CCAACNTTTA 180
ATGAGNACCT ANNNGGTGTA TGGAGCTCTA ACCCATGGGT CCATGGGAAT AAAGCAGTGA 240
ATAGTAACAA TAAATAATTG TAACAGCANA AA 272

SEQ ID NO:1924

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02177

SEQUENCE DESCRIPTION:

GATCTGACGT TTTCTACGTA GCTTTTGTAT TTTTTTTTTT TAATTNAAG GAACACTTAT 60
GAAGCCCTGC CATNCCCCTC CCGNGTCTAA TAAAACGTAT AATCACAAA 109

SEQ ID NO:1925

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02178

SEQUENCE DESCRIPTION:

GATCAACTTG TGCTTGCCAG AGGACGCCAA TGAAGTTTGA AACACCAACA ATCAGAGATT 60
TTGTTTCTGT TCCTCATTAA ATCATGAGCT TTTGTGCCGA GAAA 104

SEQ ID NO:1926

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02179

SEQUENCE DESCRIPTION:

GATCGTGTGT GTAGGTGGTG TTGTGTGGTT TTCCTTTGTG AAGGAGAGAG GGAAACTATN 60
TG TAGCTTGT TTTATAAAAA ATAAAAATG GGTAAATCTT GAAA 104

SEQ ID NO:1927

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02180

SEQUENCE DESCRIPTION:

GATCCTCCCA CTTCCACCTC CCAAGTAGCT GTGGCTACAG GTGTGTGCCA CCATGTCCAG 60

CTGATTTTNG TATTTTNAGT AGGGACAGTA TTTCTCCATG AAA

103

SEQ ID NO:1928

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02181

SEQUENCE DESCRIPTION:

GATCTAAATC TCATTTTATG CTGTATTTTA TATCTNAGTT GTNTTTGAAA ACGTTTGTAT 60
TTTTGGAAC ACATCAAAAT AAATAATGGC GTTNTTGTGTA TGCAAA 106

SEQ ID NO:1929

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02182

SEQUENCE DESCRIPTION:

GATCTGGACG AATGATACCA AACGTTTCTT TCTAACATTG TATTTTATAA CTCTGGCCTA 60
TGATTGTNTT GTGTCTTGCA TTAAAAAAA AAATTTGAGA GTGGTAGAAT TACTTCTGTT 120
ATCTGAAATA CCTGAGATGC ACTTTAACT GTTGAAATGT AAGCCTGAG GGCAGGGNCC 180
GTATCTNATT TACTGTTAGT ATCCGTTGCA TCTAGTGTGG TGCACCTGGC ACACAGTAGG 240
CACTCAATAA ATATGTATTG ATTAAAAACA AA 272

SEQ ID NO:1930

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02183

SEQUENCE DESCRIPTION:

GATCTACAGC TCCTGGATAA TTGCTTGATT CTCGCCAGAG ACTGTCAATA TTTNATTCAT 60
TGCCATTACC AATAAATCAT TGCTTTTGTT NAGATGGTAT CACTAGTGTT TCCATTGTAA 120
TCTTGACACA TGCAATTGTA AATAAAGTC ACCACTTTTG CCAAGCTTAA A 171

SEQ ID NO:1931

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02184

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCTA GTCTGGGTGA CAGAGCGAGA CCCTGTCTTG AAAAAAATAA 60
ATAAAAAATAA ATAAAAATAA AACTGGCACT ACGTTTAAA 99

SEQ ID NO:1932

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02185

SEQUENCE DESCRIPTION:

GATCTGTGTC TTAAACTTA CTGGAATGGA AATCTATGAA TTATTGCAAA TTGTAATGCT 60
GGAAACAAAA AATAATCCT TGGTTAAAGG GTTGTAATA 99

SEQ ID NO:1933

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02186

SEQUENCE DESCRIPTION:

GATCTGACA CTCTANCACT CGACTCTGCT GCTCATGGGA AGAACAGAAT TNCTCCTGCA 60
TGCAACTAAT TCAATAAAC TGTCTTGTA GCTGATAAA 99

SEQ ID NO:1934

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02187

SEQUENCE DESCRIPTION:

GATCTTGACT TATATTCTGT ACCACATACA CTTCTGTGGA CTTTATGAT TTGTGGGTAG 60
ACTTAATAAA GCATGTATAA AAGTGGCAAA 90

SEQ ID NO:1935

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02188

SEQUENCE DESCRIPTION:

GATCAGGNTG CGGATAGACT TGTAAAGGTG TTTGCTGCAT ACAGTGTAAG CATTGTGACC 60
GCCAATAANC TTCAATGGT TCTACTGNAA A 91

SEQ ID NO:1936

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02189

SEQUENCE DESCRIPTION:

GATCTTTCGT NTTTCTAAGC GACTCTACTT TCATTGTTG CCAGCNTAGC TCGTTGCTGT 60
TGCCCAATAA AGCTNGTGTA CGTNCTGCAA A 91

SEQ ID NO:1937

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02191

SEQUENCE DESCRIPTION:

GATCTTACAT CTGCAGCTCT TTCTTCTTG AATTCCTAT CTGTATGTCT GCCTAATTAA 60
AAAAATATAT ATTGTATTAT GCTAAA 86

SEQ ID NO:1938

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02192

SEQUENCE DESCRIPTION:

GATCATCAGT GTTCCTTTTT ACTTATAAAG TTGGATTCTT TTTTAGAATT TGTAATAAAT 60
AAAAACTGCT GCTTACCAC TGTAAT 86

SEQ ID NO:1939

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02193

SEQUENCE DESCRIPTION:

GATCTACCCT GCCTGTACTA CTCTAGGGAG TATGCTGGAG GCAGAGGGCA AGGGAGGGGT 60
GGTATTAAAC AAGTCAATTC TGTGTNGTAA A 91

SEQ ID NO:1940

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02194

SEQUENCE DESCRIPTION:

GATCATGAGT GACCCAGCTG TCTCAGTTG TTTATTCTGC GTCCCTTCT CCAATAAAAC 60
AAGCCAGTTG GCGTNGTTA TAAA 84

SEQ ID NO:1941

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02195

SEQUENCE DESCRIPTION:

GATCCCCATG CCTAGCAGAG TGCTGGCACT TAGTAGGTCC TCAATAAATA TTTATTAAAT 60
GATGAGATGA TGGAGCAAA 79

SEQ ID NO:1942

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02196

SEQUENCE DESCRIPTION:

GATCCAATCC CATAGACAGC TCTGGGCCTC TTGCATTGA GTTTTTTGA ATTAAACTGC 60
AGTATTTTGG AAAGCAAA 78

SEQ ID NO:1943

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02197

SEQUENCE DESCRIPTION:

GATCCACTAA GGAAATGTTT TAACAGCTAG AGACCACTGC TTGCCTGAAA GGGCGTTCCT 60
AAATTTGGTG CAGCAAA 77

SEQ ID NO:1944

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02198

SEQUENCE DESCRIPTION:

GATCCACTTC AAGAATTGCT TGCTTTCAGG AAGAGAGATG TGTTTCAACA AGCCAACTAA 60
AATATATTGC TGCAAA 76

SEQ ID NO:1945

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02199

SEQUENCE DESCRIPTION:

GATCGACTTT GTGTCTCTGT TGTCTAAAAT AGGTTTTCCC TGTCTGGAC ATTCATATA 60
AATGGAATCA CACAAA 76

SEQ ID NO:1946

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02200

SEQUENCE DESCRIPTION:

GATCATAGAT TTCTGATTTT ATGTAAAATT TTGCCTAATA CATTAAAGCA GTCACTTTTC 60
CTGTGCTGTT TCAAA 75

SEQ ID NO:1947

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02202

SEQUENCE DESCRIPTION:

GATCTGTCAA AGAAACTTC CAAAAAGATT TATTAATTAA ACCAGACTCT GTTGCAATAA 60
AAATCCTACA GAAA 74

SEQ ID NO:1948

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02203

SEQUENCE DESCRIPTION:

GATCCACTTT AGCAAACCCT GCTGCAGAGG ACTGTAAAAA CAAATAACTA AAAATAAACT 60
TAGAAAATAC AAA 73

SEQ ID NO:1949

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02204

SEQUENCE DESCRIPTION:

GATCGTAATG TTTATCATGT TACTTCCCA CCCCTACATT TTTTGAAATA AAATAAGGAA 60
TTTTATTCTC AAA 73

SEQ ID NO:1950

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02205

SEQUENCE DESCRIPTION:

GATCNC TGCA ACTAAGNTTA AAGCAGTGTG ACTGTGTTGC TNAAATATCA AGTATTGTTT 60
ATAACCACCA AA 72

SEQ ID NO:1951

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02206

SEQUENCE DESCRIPTION:

GATCTCAGCT ATTAAGATGC AAGTCTGCCA ATGCTCCTGG CCAAATAAAC CTCTTCCTC 60
TTTAAA 66

SEQ ID NO:1952

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02207

SEQUENCE DESCRIPTION:

GATCCTCTTG TACTGGGAGA GGTGCCTTTT GTATCCCCAA TTAAAGGTAG AAAACCACCC 60
TGAAA 65

SEQ ID NO:1953

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02208

SEQUENCE DESCRIPTION:

GATCTCGAAG AAAAAAGGGG GAGACCAAAG AATAAAAGAA GGGTTTCCCC ACTAAAATGA 60
AA 62

SEQ ID NO:1954

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02209

SEQUENCE DESCRIPTION:

GATCCAGCTG TNCTTAAGAG CCAGTAATGT CTTAATAAAC ATGTGGCAGC TTNNTTTGA 60
AA 62

SEQ ID NO:1955

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02210

SEQUENCE DESCRIPTION:

GATCTCACAT TTCACCCAG GCTCAACTGA GGATGTGGCT TATTAAACAC GGAAGTGCAA 60
A 61

SEQ ID NO:1956

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02211

SEQUENCE DESCRIPTION:

GATCAGCCAT GTNTATCTTT TAAAAAATA AACAGGTTGC TTTATTTCTT AGCTTCAAA 59

SEQ ID NO:1957

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02212

SEQUENCE DESCRIPTION:

GATCAGATGA GATTTAATGA AGACCCAGTG TAAAGAATAA ATGANTCTTA CTCCTTAA 59

SEQ ID NO:1958

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02213

SEQUENCE DESCRIPTION:

GATCTACACC TGGACTGCCC AGGTCTATAA GCCAATAAAG CCCCTGTTTA CTTGAAA 57

SEQ ID NO:1959

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02214

SEQUENCE DESCRIPTION:

GATCGAAGAA AAAGGGGNGN CAAAGAATAA AAGAAGGGTT TCCCACTAAA ATGAAA 56

SEQ ID NO:1960

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02215

SEQUENCE DESCRIPTION:

GATCAGAAAT GTTGANTGTG CATTGAGTAT TAAAAAATTA GATGTATATT ATNCATTGTC 60
CTTTACTCAT GAGTACCTTA TAATANTANT ANTGTATTCT TTGTTAACAA A 111

SEQ ID NO:1961

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02216

SEQUENCE DESCRIPTION:

GATCTATTCC CCATCCCAAG GCAAGCATGA ATAAAATTAG GTTAAACGTA GCATGTGGCA 60
TCGCAGTCTC TTAGAATTTG TTTCATCTAT TTNATTTTAT TGAATACTGT CTGTATCTTT 120
GGTTATCCTG TTTGAAGAAA AAGGACAAAT AAAACATGGC CAGCAAA 167

SEQ ID NO:1962

LENGTH:516

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02237

SEQUENCE DESCRIPTION:

GATCCTCATT CTCACCCATT TGGCTAATCC AGGAATATTG TTATCCCTNA NCCATTATAT 60
 TNAAGTTGAG AAATGTGACA GAGGCATTTA GAGTATGGAC TTTCCTTTCC TTTTNCNTTT 120
 NCTTTTTTCC TTTTGTAGAT GGAGTCACAC TCTCCAGGCT GGAGTNCAGT GGCACAATCT 180
 CGGCTCACTG CAATTNCCGT CTCCCAAGTT CAAGCGATTC TCCTGCTTTA GACTATGGAT 240
 TTCTTTAAGG AATACTGGTT TGCAGTTTTG TTTTCTGGAC TATATCAGCA GATGGTAGAC 300
 AGTGTTTATG TAGATGTGTT GTTGTTTTTA TCATTGGGAT TTAACTTGG NCCGAGTNAA 360
 ATAATCAGGT TTTTGTCACT CACACTCTCC CCCAGTTTTT GGAATAACT TTGGAAGGTA 420
 AGGTTTCANTN CCCTAAGGCC GGTGGGGTTN CTGTTGGACC TATGGGGGGN CCACAACGTN 480
 ACTATTTAAT TCCNCCCCAC TGTAAGGGGC AAAGGN 516

SEQ ID NO:1963

LENGTH:483

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02238

SEQUENCE DESCRIPTION:

GATCTTTCCA GATGACTTGT CCAAGGTCAC ACAGGAGTCA GATGGCCTTT CCACTACCCC 60
 ACAACACAGA TGCATAGTTA CTCTGTGGGC TAATACAATT CAGAATTCAG AGCTCTGCCC 120
 ATGGTCACCG GTGGAATCCA CCAGCCATCT CCCTGACCTT GCTCTCCTCT GTTCTCCTCG 180
 TCTCCAGGGT CCCATGATTC AGGGCGAGCT GGCTTCAGGA TGTGGGCAAG AGGGGTTTTA 240
 GATGGAAGGG TTTTCTCCA GGACAGAATG TTAAGCCAAG CCTGGACTTA ATTGTTCCAA 300
 GATGTCGTGA GAATTGGTGG ACAATTTTTT TTTAATGATT AGCAAAGGAC AAGGCTTTTG 360
 GTGGTCATTA GTATTGTTCA TCAAATATTC CAGTTCTCCA CAATTCTGGG GTACCATGGT 420
 ANGGATGAAC CTTCCCTGTC TTTTCAGGGT TAAGTTTAGC TCTNGTGATG TGCTTTTGTG 480
 AAA 483

SEQ ID NO:1964

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02239

SEQUENCE DESCRIPTION:

GATCGCTGGA GCTGTGGTCG CTGCTGTGAT GTGGAGGAGG AAGAGCTCAG ATAGAAAAGG 60
 AGGGAGCTAC TCTCAGGCTG CAAGCAGTGA CAGTGCCAG GGCTCTGATA TGTCTCTCAC 120
 AGCTTGTAAG GTGTGAGACA GCTGCCTTGT GTGGGACTGA GAGGCAAGAT TTGTTCTGTC 180
 CCTTCCCTTT GTGACTTGAA GAACCCTGAC TTTGTTTCTG CAAAGGCACC TGCATGTGTC 240
 TGTGTTCTTG TAGGCATAAT GTGAGGAGGT GGGGNGACCA CCCCACCCNN ATGTCCACCA 300
 TGACCCTCTT CCCACGNTGA CCTGTGCTCC CTCCCCAATC ATCTNTCTCG TTCCAGAGAG 360
 GTGGGGCTGA GGTGTCTCCA TCTCTGCCTC AACTTCATGG TGAAGTACTG TGTAAGTNTT 420
 TCCTGNNTAT TAAAATAAGA CCTGAGTTTA AA 452

SEQ ID NO:1965

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02240

SEQUENCE DESCRIPTION:

GATCAGACAC CAGAGGGTTG GGCATTCTTG CAATACCTTA ACAGTGCTGA AATCTGCAGC 60
 ATGGTACTAA GGAAGTTAAA GTTTGAATGT AACCACCTTA TTTAAAAGGT TTTTCTTT 120
 AATTAAATG AAATGGTGGT TGAAGTGAAC ATGATTTTGT TGACCATGTT CGTGAATTAC 180
 AGATGCAACA TGCATTGGTA GAATCGTGTG ATGGTCTTTT GTGATACTTA ATTTTACAT 240
 ATCCAGTCT CTGTATGTAT CTGCATAGAC AAAGAAAAA CAACTCCTG CTTGCTTT 300
 ATTGAANGG TTTCCAGGAC TGGTGTCTG CTCCTGAGCT CTGTTTAAAG TATGTGTATC 360
 CTTGCTTGT ATTTTGAAT TAAAAAATA AGGAAAAGGA NGCCTTTATT TGTGGNGCA 420
 TGTGGCATT GTN 433

SEQ ID NO:1966

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02241

SEQUENCE DESCRIPTION:

GATCTGCAAA GAAAGCTTTT CTTCGTCGC TGCCTCAGNC TCCTCCCTAT GCCTCTNGCA 60
 CCTGCGCAGA AGTGTGGCT GTGCTGANGT CACCATCATC TTCCTCTCCC CCAGCCTCCC 120
 AGGCTGGATG GCATGGACTG TTTGCTGACC TCTGTTCTCT TAGGGCATGG GAGGTGGGAG 180
 GATATCAAA TCTNTAGCCC TTTCCTCCTA TTCTCCAAG NAGAGAGNTT CCCATTTCTC 240
 CTCGGCCATT GTACCTAGCT CTTGTCCCTA GCTGCATTTC AGTGGACCAT GGATAGAGGG 300
 ACTGAGNGTT AGACGGGGAA GACTGGCAGN GAGGCACGCA GGTACTGTGA AAATCCTNNC 360
 CTTTGACCTC CNCCAGTGGG AGAGGGGNGT TGGGGTTTTC AATGTGAGAA CAGNAACAAA 420
 TAAN 424

SEQ ID NO:1967

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02242

SEQUENCE DESCRIPTION:

GATCNCCTGC TCTCCAAGCA TGGCATCTAT GTGCAGGCCA TCAACTACCC AACTGTCCCC 60
 CGGGGTGAAG AGCTCCTGCG CTTGGCACCC TCCCCCACC ACAGCCCTCA GATGATGGAA 120
 GATTTTGTGG AGANGTGCT GCTGGCTTGG ACTGCGGTGG GGCTGCCCT CCAGGATGTG 180
 TCTGTGGCTG CCTGCAATTT CTGTCGCCGT CCTGTACACT TTGAGCTCAT GAGTGAGTNG 240
 GAACGTTTCT ACTTCGGGAA CATGGGGCCC CAGTATGTCA CCACCTATGC CTGAGAAGCC 300
 AGNTGCCTAG GATTCACACC CCACCTGCGN TTAAGTTGGG TCCAGGCCTA CTCCTGTCTT 360
 CTGCTTTGTT GTGTGCCTCT AGCTGAATTG AGCCTAAAAA TAAAGNACAA ACCACAAA 418

SEQ ID NO:1968

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02243

SEQUENCE DESCRIPTION:

GATCATTGAA TAAACGGGT GTAGAGTACA GGAATGGGGC AGACGCGATT CAGGTGAACA 60
 GCACANGNAG AATATGAGGT GGTTCCTAGG AGCAACACTT TCGACCTCCA GTTCTCCNTG 120
 ATGACAGTAG CTGTCTCCNN GNGAAAAATC CTCACTTATT AACTCTCTTT TCTTGCATCT 180
 CATTTTATA GAGCTACTCA TCCTTATTG GAAAAACCAA CAACAAAAA GGCTTTTAGA 240
 AAATGGTTGT AAATCTGACT TCTTTGCAAG TAACTATGTA TATTGTAAAT AGGATATAAA 300
 AAGGCCTTTT TTCTAAATAA GGCCTTAACT GCCTGTAACA TGAACTTCA AACTAAACCA 360
 CTTAACTCAN TGNACTACCT TATGGGTTG TCTGACATCC CTCAACTTAC CAN 413

SEQ ID NO:1969

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02244

SEQUENCE DESCRIPTION:

GATCCCACCG AGAAGAACCA TGGGTGGACC CGAACTCCCC GGTGCTCTNA GAGGACCCAN 60
 NNCTTTGTGC CTGGGCAAAA AAGCACAAAG GAACCCAGC CCTGATTGCC CTGCGCTACC 120
 AGCTACAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
 ACGTGCAGGT GTTTGAATTC CAGTTGACTT CAGAGGAGAT GAAAGCCATA GATGGCCTAA 240
 ACAGAAATGT GCGATATTG ACCCTTGNTA TTTTGTCTGG NCCCCCTAAT TATCCATTTT 300
 CTGATGAATA TTAACATGGA GGGCATTGCA TGNGGGTCTA CCAGAAGNNC NTNGGGTNTT 360
 GGANTGGTNG CANAAGNGGG TNGGTTCTTA TGGCTGGGGG NACTTGGGCA AN 412

SEQ ID NO:1970

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02245

SEQUENCE DESCRIPTION:

GATCCAAAGT TCATACATTT TATGTACAAG ATACATTAGA CTTACAATAN AGTCTAATTA 60
 TTAGACTTTT ATGTCAGTGG ATTGTGCTTG CAGAAATACA GAAGTAACAT ACTGACCCTA 120
 GGTGAGGAGT TTCTTACATG GTTAACTGGA TTGACCCAAT TGGAGTAAAA GATTTTGTCT 180
 GTTACCTCGA TGCTCCTGCA GTTGTTACCT CAGCATGCCA CTGTAGTCCT TGACTCTCAC 240
 ATTAAACTA ACTTTGGCTA GGTACTGGTG GCTCACACCT GTANGTAATC CCAGTACTTT 300
 AGGAGGCTGA GACTGGAGGA TTAATTGAGT CCAGGAGTTG GAGACCAGCC TGGCCAATAT 360
 AGACTGTCCC TACAAAGGAA AATAAANTTT GTTTCATCTT TCNAAA 406

SEQ ID NO:1971

LENGTH:401

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02246

SEQUENCE DESCRIPTION:

GATCAAATAT GGCATCAACA ATATCCGGGA GCTGGTGGGC CACAAGGTGA ACCTGCAGAT 60
 GGTGTATGAC AGTCCCCTGT NCCGCCTGGA TGCCGAGCCG AGGCCCCCTC CCACACAGGA 120

GGCTGCGTGA CATGGGCCAC TCTAGGACAG GTCATCCTCC CCGAGTCCCT GCTGCTGCGC 180
 TCCTTTGCAT CCCTGGCCAG TNACCTTGTA TTTATGAGGC CTCTGTNAGG CAGCCCCCAC 240
 CTTCTCTTTT CCCACCTGTC CCAGGACCAG AATCCCAGGG ACAGAGGACT GGGTAGCAGG 300
 TTCCTTCTGT TGTCTGTGT GGTGTGTCTA CTGTGAGGGT GGGCCCTGAG GAGACCTGTG 360
 GGCCANCTAT TGTCTAATAA AGTGGGGCAG TTGCCCCCAA A 401

SEQ ID NO:1972

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02247

SEQUENCE DESCRIPTION:

GATCTTTNAT GTTGTNATT TTGGAGAGAA GCACAAGGAG TATTCTCTTT CTAGGGAAAG 60
 TTGTGAACCC AACGGAAGCG TAGTTGGGAA AAAGGCCATT GGCTAATTNC ACGTGTGTAT 120
 TGCAATGGGA AATAAATAAA TAATATAGCC TGGTGTGATT GATGTGAGCT TGGNCTTGCA 180
 TTCCCTTATG ATGGGATGAA GATTGACCCC TGGCTGACCT TTNTTGGCTG TGAAGAGGN 240
 CAATCCTATG GCAGAGCATT CAGAATGTCA ATGCGTAATT CATTATTATC CAAAGCATAG 300
 GAAGGCTCTA TGTNTGTATA TNNCCCTNTG TCGGAATACC CCCTTANCTC ATTTTCCNCT 360
 TAATAAATTT CACTGGGTTG NAAA 384

SEQ ID NO:1973

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02248

SEQUENCE DESCRIPTION:

GATCCTGCTT CTCCCCTGGG GTCTTCTTGG TTCCCTGAAG CCCCTCTTCC GGAGTCCCTG 60
 CCCTCTATCG GCTCTGCCTC CTGCTTCTTT TCTGTATTGC CATGATTTT GCTAAGGATA 120
 AAGGACAACT TCATTGGCTT CTTTGGGAAA CTTGCAATCT CCCCCAACAG GCCCCTCTGA 180
 GATTTCTCCT TTTGCCACCT TCGATATTTT CTCCAGTTTC CTTGATTCCT TTGATACGTC 240
 CCCATTCAAG CCACTCTGGC CTTCCATCCA ACCTGCCAGA ACTTTTTCCT CTTGAGCACT 300
 TCAGTCACTT AAACATTAGG GCTCCCTGCC CTAAAGGGAC TCAAAATCCT GCAAAANCAA 360
 CCACNNAAGG ATAAAAAAT AAA 383

SEQ ID NO:1974

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02249

SEQUENCE DESCRIPTION:

GATCAACAGG AAGAACATGG TGGTCTCCTT TGGAGATGGG GTTACCTTCG TGGTCGTCCT 60
 ACACCAAGTG TGGAAGAAAC ATCCTGTCCA CCGTGACTTT CTAGGCTTCT ACGTGGTGGA 120
 CAGTCACCGG ATGTCAGCAC AGACGCATGG GCTGNTGGGG CAATTCTTCC AACCCTTTGA 180
 CTTTAAAGTG TCTGACATCN GGCCAGGCTC TNACCCACA AAGCCAGATG CCACATTGGT 240
 GGTGAAGAAC CATCANGTG ATTNACCA GGGGCTCCCN GAAAGANTAC AGNAAAGGNA 300

2153480

TGCCANGCAT CGGCACGAAN GGTGTCTTC TTGGTTCGNN CACANCAACG GGAATGTTG 360
TTGNTTGANT GGTGN 375

SEQ ID NO:1975

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02250

SEQUENCE DESCRIPTION:

GATCTATGTG CACACACCCN CATCACATGG AATGGGCTGG TCTAGGCTGT GGCCTGNCAC 60
CTTCCTTAGA GTGAATAGGG CGGACACTCC TCTCTTTTCC TGAGCGTGT GGACCGGTCC 120
ACGCAATTCT TTATCCTGTG AACTCATCTG AGTGGGAGGT GGTGGACACT GGGGTTTCCT 180
TCCCTCTCTC CGTAGCATCC GTTGGTCTTT CTCTCCATCT CTGTTGGTTT GTCTGTCTCT 240
GTCTTCCTCC CAATCCCTAG GGAAGGGGG CATTGGCTA GGGGGTGCCC CTGTGAGCCT 300
NGACCTTGCC CCCTCGTCCN TCTCCCCAGT GTTCCAGGA CCCCCAATAA ACCTTGTCTT 360
GTCAGTCAAA 370

SEQ ID NO:1976

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02252

SEQUENCE DESCRIPTION:

GATCGATACA GGGGAGGGGG GAGGTGAAA CAAACAACAA AACTGTACAT TTTTTTAAA 60
GTTTGTGAA AAGAATATTG TCTTATTCTA TAAACATTT CAAACCTAGT TAGAGATTG 120
TAATCAAAAA ACATTTGCGC AGAAAGCAGC ACTTAGGGCT GCCTGTTCTA TACCCTACAG 180
TCAGACAGGA AAAGANCTGA AAATGGCACC CTTCTGACAT TCTGNGCAG CTGGNCTNGC 240
AGCCANGTAA NGGNGAGTTT ATGAGGTGGT GTGGGGAGGG TGGGGAGGC NGCGTGGGG 300
NTTCTCTCCA CAGCAGGTGG GNGCAGGCAA GNNTTGGNG GCCAGANGN GNGCTTTGTN 360
CNTGGGN 367

SEQ ID NO:1977

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02254

SEQUENCE DESCRIPTION:

GATCTCCAGC CTTACCGCGG CTCGAAATGG ACCCCAAGT CTCCTGCACC ACTGGTGTCT 60
CCTGCGCCTG CACCGGCTCC TGCAAGTGCA AAGAGTGCAA ATGCACCTCC TGCAAGAAGA 120
GCTGTGCTC CTGCTGCCCC GTGGGCTGTG CCAAGTGTGC CCACGGCTGT GTCTGCAAAG 180
GGACGTTGGA GAACTGCAGC TGCTGTGCCT GATGTGGGAA CAGCTCTTCT CCCAGATGTT 240
AATAGAACAA GCTGCACAAC CTGGATTTT TTTTCAATAC GATACTGAGC CATTTGNNGC 300
ATTTCTTTT ATGTAAATA TGTGAGTGAC AATAAAACAA TTTTGAAGT AAA 353

SEQ ID NO:1978

00790

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02255

SEQUENCE DESCRIPTION:

```
GATCTNACCT GAGGTGCTGG GTGAGAAATC TTAGGGACCA GATGGAAGAG GGCCTGTNTA 60
TANNGACATT AGGAAGGAGG TTTGGGAAGG TTTGGGAGGG CAGCCTGACT TGTCTCCAGA 120
GAAAGTTAGA ACTGGTTGAC TTAGCAACCA AGGGNCACTG GGTCAAAGAC GAGGANTCAG 180
GACGTCGGTG CCTAGTGACT GAGCGCCANC CAGCCCATT CTNTACATTG CCATGGGCTA 240
AACCCAGTGT GCTGTAAACT CTTGCAGTTC CTTGNGGTTA TGGGATTTTG NTATCTTGNC 300
NGTGTTCCT CAANTAAAGG NNCTTGTTTG TAAAAATTGG GNAANAAGAA A 351
```

SEQ ID NO:1979

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02256

SEQUENCE DESCRIPTION:

```
GATCTGTTTC CTACAGACTT CAAATTTGAC ACCCCAGTGG ACAAACCTACC ACAGCTATAA 60
ATTGAGGCAG CTAACGTCAA ATTCTTGAAT ACAAACCTTT GCCTGTTGTA CATAGCCTAT 120
ACAAAATGCT GGGTTGAGCC TTTCATGAGG AAAAAACAAA GACATGGTAC GCATTCCAGG 180
GCTGAATACT ATTGCTTGGC ATNNNGTATG TATATACTAG TGAACATAT TTAATGATTT 240
AAATTCTTA TCAAATTTCT TTTGTAGCAA TCTAGGAAAC TGTATTTTGG AAGATATTTG 300
AAATTATGTA ATTCTTGAAT AAAACATTTT TCAAACTCA AA 342
```

SEQ ID NO:1980

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02257

SEQUENCE DESCRIPTION:

```
GATCAGCATG ACCAGCACTC GTTGGNGGAA AGGTGTCTNT NAGGAGACGT CTGGAGCTTA 60
TGAGAAAACA GATACTGATG GGAAGTTTCT CTATCACAAA TCCAAATGGA ACATAACCAT 120
GGCGTCTTAT GTGGTCCACA CCAACTATGA TGAGTATGCC ATTTTCCTGA CCAAGAAATT 180
CAGCCGCCAT CATNGACCCA CCATTACTGC GGTGTCCCTG GTGATGGNGA TGAGGAGCTN 240
CTGCGCTTCT CCAACTGACA ACTGGCCGNT CTGCANGTCA GAGGATGGNC AGTGTCTGTC 300
CNGGGGTACT GTGGCAGNCA GCGACAAGCA ACCTGNGTCN 340
```

SEQ ID NO:1981

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02258

SEQUENCE DESCRIPTION:

```
GATCNTNTCG NCTCTGAAGA AGACATGGTG ACTGTGGTGG AGGACTGGAT GANNTTCTAC 60
```


2153480

ATCAACTATT ACAGGCAGCA GGTGACAGGG GAGCCCCAAG AGCGAGACAA GGCTCTGCAG 120
GAGCTTCGGC AAGAGCTGAA CACTCTGGCC AACCCCTTCC TGGCCAAGTA CAGGGACTTC 180
CTGAAGTCTC ATGAGCTCCC GAGTCACCCA CCGCCCTCCT CCTAGCTCAG GGACCCAGCC 240
CCTCCTCTCT GAGAACTCT GACCTTCATG TCCTTAGGCT GTGCTCCTGC CACTCTACCC 300
TGACACCTCA ATAAAGACCA GTGCTGGTTT TGTTGGAAA 339

SEQ ID NO:1982

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02259

SEQUENCE DESCRIPTION:

GATCCTTNCG TGCTGAATAT CTGAAAAGAG AAATTTTCC TACAAAATCT CTTGGGTCAA 60
GAAAGTTCTA GAATTTNAAT TGATAACAT GGTGGGTTGG CTNAGGGNAA GAGTATATGA 120
GGAACCTTTT AAACGACAAC AATACTGCTA GCTTTCAGGA TGATTTTAA AAAATAGATT 180
CAATGTGTT ATCCTCTCTC TGAAACGCTT CCTATAACTC GAGTTTATAG GGAAGAAAA 240
AGCTATTGTT TACAATTATA TCACCATTAA GGCAACTGCT ACACCCTGCT TTGTATTCTG 300
GGCTAAGATN CATTAAAAAC TAGCTGCNCT TAAA 334

SEQ ID NO:1983

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02260

SEQUENCE DESCRIPTION:

GATCTTGTGC CAAGCTNAGG GTGTAGCGCT GCAAACGATG AAGCAAGAGT TTCTCATTAA 60
CCTTGTGAAG CAAAAGCCAC AAATAACANA GGAACAACTT GAGGCTGTCA TTGCANATTT 120
CTCAGGCTNT TGGAGAAATG CTGCCAAGGC AGGACAGGAG TCTGCTTTGT GAGAGGGCAA 180
AAACTGATTT CAAAACTCG CCTGCTTTGG GNTTTAAATT ACTTCAGGGA AGANAGCAAA 240
CAGNNCTTTC ATTGGGTGTN ACTTTTCTCT NNAATTTTAA CTNNTTTAAC ACTTTTGTG 300
GATTAATGNA ATGATAAAGC CTTTATCGC NN 332

SEQ ID NO:1984

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02261

SEQUENCE DESCRIPTION:

GATCCTGTGT GTGTGTACTA CCATAGAATG GGCCCCAAGA TGCATGATNA AGTGAGGAAA 60
AAAGCCCATG GTATCCTAAT GTTGGGAATG GAGAAAGTGT GTAGATGTAT GTGTGTGCAT 120
ATGTTTTTAC ACAGACGTAT ACACGTGTAT ATCATATGTC CACCTGCATA TGCCTAGGAT 180
GTCTCTGGGA GGATATCTAG CAGCCCGGCA GCCTGAATTG CCTCTGGGAA GAGGGGTGGG 240
AATGACTTTT CAATGTACAC CTTTGTACC TTTTGAATTT TCGTACCATG TACATGTATT 300
ATCTATTA AAATAGTTCT TAATTTTAA A 331

SEQ ID NO:1985

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02262

SEQUENCE DESCRIPTION:

GATCACCCGG CAAGTTCAGG CTGAATTCTG AAGGCAAAC TGAAGCAGAC GTCTCCATGG 60
 CAACCCGAGC TTCAGAGGCC GAGGATGCCT CCCTTCTCAG CTTTCATGCAG GGCTACATGA 120
 AGCACGCCAC CAAGACCGCC AAGGATGCAC TGAGCAGCGT GCAGGAGTCC CAGGTGGCCC 180
 AGCAGGCCAG GGGCTGGGTG ACCGATGGCT TCAGTTCCTT GAAAGACTAC TGGAGCACCG 240
 TTAAGGACAA GTTCTCTGAG TTCTGGGATT TGGACCCTGA GGTCAGACCA ACTTCAGCCG 300
 TGGCTGCCTG AGGACCTCAA TACCCN 326

SEQ ID NO:1986

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02263

SEQUENCE DESCRIPTION:

GATCCTTACA TCTGCATCTA GTTATCAGTA ATTTAGATAT TGAGCTATTT TGATTATAT 60
 TTAAGAAATT AATACATTAG CACTGAAAGT TAAATAGTGT GTTTAAGGTA GTTAATTTCA 120
 GGTGGAATGG GTTTTTTTTA ATGAAGTGTA AATAATACCA ATGTATAAGN GTATATTATN 180
 ATATTAAATA TTATAGTAAA AAGGAATGTG TGGTATTNC TNCAGCAAAA CTATTTTGT 240
 GATNTTTTNA TTCTCANCTT TNTATTTAAA AAATGTTACA TCTGCAGAAA AGTTGAAAGT 300
 ATAATAAACT CTCAGTTAA A 321

SEQ ID NO:1987

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02264

SEQUENCE DESCRIPTION:

GATCTGCGCT GTGGCTGTCC CTGGACGTGC TGCAGCCCTC CTGTCCCTTC CCCCAGTCA 60
 GTATTACCCT GTGAAGCCCC TTCCCTCCTT TATTATTCAG GAGGGCTGGG GGGGCTCCCT 120
 GGTTCNAGC ATCATCCTTT CCCCTCCCT CTCTTCCTCC CCTCTGCACT TTGTTTACTT 180
 GTTTTGACA GACGTGGGCC TGGGCCTTCT CAGCAGCCGC CTTCTAGTTG GGGGCTAGTC 240
 GCCGAATTCT ACAATCCCGC TGGGGCGGCC GGGGCGGGAG AGAAAGGTGG TGCTGCAGTG 300
 GTGGCCCTGG GGGGCCATTC N 321

SEQ ID NO:1988

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02266

SEQUENCE DESCRIPTION:

GATCAAAAAT TTCTATCTGG AGAACCTCTG CGGACAAACC GAGTGCTTCC TGCAATTCCA 60
AGTCAACGAA GACACAGCAC AGCAGCAGAA GAGAGTGAAC ATTCTGCCAA CCCCACCAGT 120
GATGAAAATT AACTGTGGGC CACTCGCTGC AGAAATGTAG ATGAATATGT ATTTTCAACT 180
CTCAAAGGAC AAGATTACTC CAGTTTGTA GAACGAAGAC CAATTTAGTA AGCTGCATTC 240
TATAAGCCAT CAGTTTTATA ACTCGAAATT CTTTATTCCA AATAAAGATA CTCCCTAAAT 300
AAGCACTTAG ANAAA 315

SEQ ID NO:1989

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02268

SEQUENCE DESCRIPTION:

GATCAAAGCT GGGGCTGGAG GGTGGAGGTG TCAAGCCAGG CCAGGCAAAG GGAGATTGA 60
AGCCAGAGCA GGTGGGCGCA TCTCCCAGGA AACCTGCGAT CATTCTTTCC TGGTGATTCT 120
TTCCTTCTTT GTTATGGTTC ACATGAGTCT ATGGAGTGCT CATTCTACAT TCTCCGTTCT 180
TATCTTCATC CTATGCAACT TTAGACCGCT ACTGTTTTTT AAAAGTGATT TGATTGNGG 240
CTGTAAACCTT TTTTATTGT TGTTAGCTTT GACTTTGAAA TGTGTAATAA AGATTCAAGT 300
GAGCATTAGA AA 312

SEQ ID NO:1990

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02269

SEQUENCE DESCRIPTION:

GATCTTGGGG TCCCCGACG ACGTGCTCGA GTTCCTGAAG GTGTATGAGA AGCACTCNGC 60
CCAGTGAGCA CCTGCCCTGC CTGCATCTGG AGAATTGCCT CTACCTGGAC CTTTGTCTC 120
ACACAGCAGT ACCCTGACCT GCTGTGCACC TTACATTCCT AGAGAGCAGA AATAAAAAGC 180
ATGACTATTT CCACCATCAA ATGCTGTAGA ATGCTTGGCA CTCCTAACC AAATGCTGTC 240
TCCATAATGC CACTGGTGTT AAGATATATT TTGAGTGGAT GGAGGAGAAA TAAACTTATT 300
CCTCCTTAAA 310

SEQ ID NO:1991

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02270

SEQUENCE DESCRIPTION:

GATCCGAGTG AATGCAGTAA ACCCCACAGT GGTGATGACG TCCATGGGCC AGGCCACCTG 60
GAGTGACCCC CACAAGGCCA AGACTATGCT GAACCGAATC CCACTTGGCA AGTTTGCTGA 120
GGTAGAGCAC GTGGTGAACG CCATCCTCTT TCTGCTGAGT GACCGAAGTG GCATGACCAC 180
GGGTTCCACT TTGCCGNTGG AAGGGGGCTT CTGGGCCTGC TGAGCTCCCT CCACACACCT 240
NAAGCCCCAT GGGCGTGCTC ATCCTACCCC CAATCCNTCC AATAAACCTG ATTCTGCTGG 300
CCAAA 305

SEQ ID NO:1992

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02271

SEQUENCE DESCRIPTION:

GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCTCT GACGTCCTGC CCAAGTGAAC 60
AGCTGCGGCA GCCCTCCCAG CCTACCCCTC CTGCGCTGCC CCAGNNCTG GGAAGGAGGC 120
CGCTATGCAG GGTAGCACTG GGAACAGGAG ACCCACCTGA GGCTCAGCCC TAGCCCTCAG 180
CCCACCTGGG GAGTTTACTA CCTGGGGACC CCCCTTGCCC ATGCNTCCAG CTACAAAACA 240
ATTCAATTGC TTTTTTTTTT TGGTCCAAAN TAAACNTCA GTTAGCTNTG CCAATTTNAA 300
A 301

SEQ ID NO:1993

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02272

SEQUENCE DESCRIPTION:

GATCTGAACT CCAGCTGCCC TACAACTCC GTCACAGCTT TTNTTCTCAC TTCATGTGAA 60
 AACTACCCCA GTGGCTGACT GAATTGCTGA CCCTTCAAGC TCTGTCCTTA TCCATTACCT 120
 TAAAGCAGTC ATTCCTTAGT AAAGTTTCCA ACAAATAGAA ATTAATGAAT AAATGTTGAC 180
 ACTTTGATAG CACTGATATG GAGATTATCC TTTCATTGAG CCTTTTATCC TCTGGTCTTC 240
 TTTGAAGAAC CCCTCACTGT CACCTTCCTG AGAATACTCT AAGACCAATA AATACTTCAG 300
 TATTCAGAA A 311

SEQ ID NO:1994

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02274

SEQUENCE DESCRIPTION:

GATCTAAAAC TNAAGAACAA ATTCTATTTA TTTATTATTG GAAAATNAAA AGCAACTCAA 60
 AACAACCTCA ACCTGGAGGT GCATTATATA TTCATTCTGC ATTTATTCTG TAAAAAGGTG 120
 ACTGTTTTAT AAATNCTTTT AATTTATGTT CAATATATAT AAAAAGTGCA TCTNTTTTNT 180
 TTTCCCTTT TTTCTCCATA ATTTAAGAA ATGAATNNGN TTGTTGTCAA CACATTTGTG 240
 AAGTCTTGTG CTATAAAGGG GAACCTCCCC TAATAAAGG GCCTTGAAA CCTCAAA 297

SEQ ID NO:1995

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02275

SEQUENCE DESCRIPTION:

GATCTAGGAG AGGCGGCTCT GAACGATTAC CTGCGGGTCA AGACAGTNAC CTCGAATAC 60
 TGAAGAAAGG TCTTTTAAAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGCCCCCTC 120
 CCTNTTAAAG CTGGNTGCAC AGCACCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCN 180
 TGCACACCAT GTTTCNTCT TGGACGCCCT CTTCCAGTN ANAAGCAGCC CTTGGNTGNN 240
 TNAGGTGTGC CCCTCCCAGG NAGAATAAAG CTTCTAAAGA NAGACCGTCC AAA 293

SEQ ID NO:1996

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02276

SEQUENCE DESCRIPTION:

GATCAGGAGG AAGTGAGCAG TCGCCTGCCT GCAGCAGGNA GCTTCTACT CCTGCCTCAT 60
 GCGTACGTCC CACAAATGCA GGTGTCCTGA GCACCACACC CAGTGGGAAG AGTGTGGGGG 120
 AGGCGCACAG TGTGAGCCCG CCCCCACGTC GTGGGTTAAC ATCTGTTATC AACTGCTGT 180
 CGTTGTTGTG GGTGTTGCTC TTGAACAAGA TGTGGGCCCTT GCAAGATGGG AGAGTAAACC 240
 TTGAAGGGCT TTATTAAAGA AATAAAAAAG NACTTNTTGT ATCTTTTAAA 290

SEQ ID NO:1997

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02277

SEQUENCE DESCRIPTION:

GATCCTGAAG AGGATGGTGT GGAATGCAC TTTGAGAAAT GNCTATCTAA CCTTNGAAA 60
 CTTAAAGTGT TCCAGTCCC CATTATACTT TTTAAACCA CAATAGTCAC ATAAGGAAAT 120
 AATCTAGCAG CTCATCCCTT TGCATCCAAT GTTTGAACTA TTTTGTAGAA GTGCTCTNGT 180
 TCTGTCAAAG AACCTTCAAC ACAGAAAAAT ACANAAATGA GGGAAATGTA TAATTCCTGC 240
 AGGAGAGAAG TGTTGTTAAC ATGTCAATAN ATGTTCTTAG ANAGTTAAA 289

SEQ ID NO:1998

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02278

SEQUENCE DESCRIPTION:

GATCAGAGAA GCTAGGAGAG CTCCAGCAGG GGCACAGAGG ATTGGNNGCA GGAGGAGTCT 60
 GGAACACAGC CTTTCATGCCC CCTGACCCCA GGCCGACCCT CCCCACACCC TAGGGTACCC 120
 CAGTCGTATC CTCTGTCCGC ATGTGTGGCC AGGTCTGACA AACACCTGTA GATGACTGNT 180
 GGCCNAACCT GGGNCTGNN CAGGAGGTTG GAGCAGNAAG GGCTCTCCCT AGGGGTGGTG 240
 TMTCTCTCT AGGGTATTGG GNTGCATGTN NTGCACTNN 279

SEQ ID NO:1999

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02279

SEQUENCE DESCRIPTION:

GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGAGGT 60
 ATCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT TGCATTTCTT TCTTAACTCT 120
 CTGTTACAG TCATTGAAAC TACACTTTTT TGGTCTNTTT TTNTGCTAGA CTGTAAGTTC 180
 CTTGGGGNCA GGGCCTTTGN CTGNCTCATC TCTGTATTCC CAAATGCCTA ACAGTACAGA 240
 GCCATGACTC AATAAATACA TGNTAAATGG NAAA 274

SEQ ID NO:2000

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02280

SEQUENCE DESCRIPTION:

GATCTTAACA AAATTCGTAG CAGTGAACC TTGAAATGCA TGTGGCTAGA TTTATGCTAA 60
 AATGATTCTC AGTTAGCATT TTAGTAACAC TTCAAAGGTT TTTTTTTGTT TGTTTTCTAG 120
 ACTTAATAAA AGCTTAGGAT TAATTAGAAG AAGCAATCTA GTTAAATTC CCATTGTAT 180
 TTNATTTNCT TGAATACTTT TTNCATAGTT ATTTGTTTAA AANGATTTAA AAATCATTGC 240

ACTTTGGTCA GAAAAATAAT AAATATATCT NATAAACAAA

280

SEQ ID NO:2001

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02281

SEQUENCE DESCRIPTION:

GATCTGCATG TTCTCTCTTT GGGTTCAAGC ATTCCTTAC AGAAGAGCCA CCGTGAAGT 60
CATGGGTAAA TATGTGTGA ATTGGTAACT CCCTCTTGA GAATTCTTG TGAATTACAC 120
AGCAATAGGG GAACTCATT AACTGGAGAC ATAATCTCAA TTTGTAAAGT GTGGCCCAT 180
TTCTAACATT TTNANNTGC ATACCCTCCC CTCTCTTCTC GATTGATGAA ACTAACAAAG 240
AGGTTAATAA AAGCCCATCT CGTCATGTAA A 271

SEQ ID NO:2002

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02282

SEQUENCE DESCRIPTION:

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAAT GGCAGACAAT GATTGAAGCT 60
CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTCTGTGT TGGTTTTACT 120
AAAAAACGCA NCAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCNCNA AGGTNCGNCN 180
AATNCGGGAG AAGATGATGG GNAATCATTG GCCCCGTGAG GGTCAAGGC AAANTTTGCT 240
TTTGAANGNA AGGGGGGNNNA ATAAATTNGN 270

SEQ ID NO:2003

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02283

SEQUENCE DESCRIPTION:

GATCCCAACA GAAGAACATC GGAGACCAGA GAGAGGAACT CAAAGGGGCG CTGCCTCCGG 60
GTCTGGGGTC CTGGCCTGCG TGGCCTNTTG GCACGTGTTT CTCTTCCCG CCCGGCCTCC 120
AGTTGTGTGC TCTCACACAG GCTTCCTTCT CGACCGGCAG GGGCTGGCTG GCTTGCAGGC 180
CACGAGNGTN GGTCTACCC NACACTGGCT TTGCTGTGTA TACGCTTNTT GCCCTTAAAT 240
AAATATGCAC ATTTTATCCA TAAA 265

SEQ ID NO:2004

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02285

SEQUENCE DESCRIPTION:

GATCCACATT GTTAGGTGCT GACCTAGACA GAGATGAACT GAGGTCCTTG TTTGTTTTG 60

TTCATAATAC AAAGGTGCTA ATTAATAGTA TTTCAGATAC TTGAAGAATG TTGATGGTGC 120
TAGAAGAATT TGAGAAGAAA TACTCCTGTA TTGAGTTGTA TCGTGTGGTG TATTTTTTAA 180
AAAATTTGAT TTAGCATTCA TATTTTCCAT CTTATTCCCA ATTAAAAGTA TGCAGATTAT 240
TTGCCCAAA 249

SEQ ID NO:2005

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02287

SEQUENCE DESCRIPTION:

GATCAGGAGC AAACAGACCC TGCAAGGTCC TCCAGGCCTG GGGACAGGAA AGCCACTGAC 60
CCAGCCCGGG AGGCAGAACC AGGCAGCCTC CNTGGCCCCA GGCAGCCCTT TTCCCTCCAG 120
TGGCACCTCC TGGAAACAGT CCACTTGGGC GCAAAACCCA GTGCCTTCCA AATGAGCTGC 180
AGTCCCCAGG CCATGAGCCT CCCGGGAATG TTTAATAAAG GGCCTGGCCA CCTCTCCTCA 240
AA 242

SEQ ID NO:2006

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02288

SEQUENCE DESCRIPTION:

GATCTAAGTT TGATAAGAGC CTGTGTGGTG AGTATGGTGT GTATGTGAAG GTGACTTCCA 60
TCCAGGACTG GGTTCAGAAG CCATAGCTGA GACTAATGCA AGGCTGGCGA AGCCTTGCTG 120
AAAGAAGATT TCAGCTGGAG AGGCAAAGTG GCGGGAGTGG CAGAGTGGTG CGTAAGTGTG 180
GTAAAGTNTG GGTCCANCCT GCATTCTGAG CAATCAATAA AGTNTTCTT TTNCCCAA 239

SEQ ID NO:2007

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02289

SEQUENCE DESCRIPTION:

GATCCTGAAG GTAATACAAT CAGCAACATT AAAACATTTT TTTCATTTTC TGTTACTGAA 60
GTAAATAAG CATTCCACAT TTATAACAA CAGGTTATTT CAGGAAGATA TTTTCATATC 120
TTACAGCGAA AAGTCTTTTC AAACAGAAGC ACCTAATATT TAATATATTA TTTTGTAAT 180
TATTGACTAA CAAATGATG ACTCGACTGG CGAAATAAAA TACAGTTTTT AAATCAAA 238

SEQ ID NO:2008

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02290

SEQUENCE DESCRIPTION:

GATCCTGAGA NCTTCAAGCT CCTGGNNAAT GTNCTGGTGA CCGTTTTGGC AATCCATTTC 60
GGCAAAGAAT TCACCCCTGA GGTGCAGGCT TCCTGGCAGA AGATGGTGAC TGGAGTGGCC 120
AGTNCCCTGT CCTCCAGATA CCACTGAGCT CACTGCCCAT NATGCAGAGC TTTCAAGGAT 180
AGGCTTTATT CTGCAAGCAA TCAAATAATA AATNTATTCT GCTANGNNA AACAAA 236

SEQ ID NO:2009

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02291

SEQUENCE DESCRIPTION:

GATCATTACC ATTACAGGAA CACAGGACCA GATACAGAAT GCACAGTATT TGCTGCAGAA 60
CAGTGTGAAG CAGTATGCAG ATGTTGAAGG ATTCTAATGC AAGATATTTT TCCTTTTTTA 120
TAGTGTGAAG CAGTATTCTG GAAAGTTTTT CTAAGACTAG TGAAGAACTG AAGGAGTCCT 180
GCATCTTTN NNGTTTAANC TGCTTCTGTT NAAAANGCCA NCATTCTCT GTTN 235

SEQ ID NO:2010

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02292

SEQUENCE DESCRIPTION:

GATCCTGAAG AACTTCAAGC TCCTGGGAAA TATGCTGGTG ACCGTTTTGG CAANNNGTTT 60
CGGCAAAGAN TTCACCCCTG AGGTGCAGGC TTCCTGGCAG AAGATGGTGA CTGGAGTGGC 120
CAGTGCCCTG TCCTCCANAT ACCACTGAGC TCACTGCCCCA TAATGCAGAG CTTTCAAGGA 180
TAGGCTTTAT NCTGCAAGCA ATACAAATAA TAANTCTNTC CTCCTAAGAG AAA 233

SEQ ID NO:2011

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02293

SEQUENCE DESCRIPTION:

GATCCTTGAC GAGGAGAGAG AGCTTGAAAA GCTGTTTCAG CTGGGCCCCG CTTACCTGT 60
GAAGATGCC TCTCCACCAT GGGAAATCCAA TCTGTGCAG TCTCCTTCAA GCATTCTGTC 120
GACCCTGGAT GTTGAATTGC CACCTGTTTG CTGTGACATA GATATTTAAA TTTCTTAGTG 180
CTTCAGAGTT TGTGTGTATT TGTATTAATA AAGCATTCTT TAACAGAAA 229

SEQ ID NO:2012

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02294

SEQUENCE DESCRIPTION:

GATCTGGCAT AAATAAATTN AATAAATATT TTAATGCTCC ATTTTTTAAT GTTGCTTTTC 60

ATACTAAAGA ATGGTGTAGA CTTGTTTTGC AACTNTAAGG TACCCAGTTA TCAATTTAAT 120
CAATGTTTTA GAGNAGGAAA TNATTTTTTN GGTAGAAATT GTTCANGAAC CTTAATTGAA 180
TGCATTAAAT GATGGTGGCA AAATAAACCT ATTAGAAATT AAA 223

SEQ ID NO:2013

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02295

SEQUENCE DESCRIPTION:

GATCAATGCC CTCATCTGCA ATGTAGGGGC CGGTGGACCT GCTCCAGCAG CTGGTGCTGC 60
ACCANAGGAG GTCCTGCCCC CTCCACTNCT GCTGCTCCAG CTGAGGAGAA GAAAGTGGAA 120
GCAAAGAAAG AAGAATCCGA GGAGTCTGAT GATGACATGG GCTTTGGTCT TTTTGAATAA 180
ACCTCTTTTA TAACATGTTC AATAAAAAGC TGAACCTTAA A 221

SEQ ID NO:2014

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02296

SEQUENCE DESCRIPTION:

GATCTGTAGT GTCATGGGTG CTGCCGAGA CGNAAGTTGA NCTGGGGGTG CCTGCAGCCT 60
TCCACTCTG CCCC GCCTCA CCCCACATGC TCCCTGTTTC TAATGCTTTC TCTAACTTCC 120
TCACCCCTTA ACCAAAAAGG TGTGTTNCT TTTGTNCATA TAGCCATTCT NAAATATNAG 180
TAATGTAAAC CTNACTTTAT TAAAAAATTA TCCAGCAAA 219

SEQ ID NO:2015

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02297

SEQUENCE DESCRIPTION:

GATCAGGTTT GTTGAGTTT TTAGCCTAAT TCCAAAGCAT GGAAGAGTGC TCTAGGTAGG 60
AAAGAAAGCT TTTTCTTACG ATTTGTAGCT ACCTACTGTG CCTGACTTGG TGCCTGTGTG 120
AGGATTAAGC CCTTAGTCTG CTCTTGCAAT TATTCAAATG ACAAATTAAA TTTGCTTTTG 180
TAATAACAAT AAAAGTTGTC ATCTTCCTT TTGAAA 216

SEQ ID NO:2016

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02298

SEQUENCE DESCRIPTION:

GATCCTGCCA TCACTGCTGC AAAGAGAACA CGAGACTCAA GGAAACTCCT CCTCCACCGC 60
AGCCCAACTG TGCCTGCTAG TNTCCCGTG CACACAGGCA GCTCCAGGGG GCTCTGGTTG 120

CCAACAAACA GCATTTGTAA ATGGTCTATT AGCCTTCATT TATACTGCCT AACAATTATT 180
TGAAGGAATA AATTGATGTC AATGGCTAAA 210

SEQ ID NO:2017

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02299

SEQUENCE DESCRIPTION:

GATCTAGCCT GATTCCTGCG TGTCCGAAAG AACTTAACGT TTAAAGGTN ATTGTNAAGT 60
AACTGTGTGG GGTCTAATG CCAGTTTCCT AATCCATCT CACTGGAGAT GTTTAAAGTT 120
GGCCTCTATC CTAATGACTC AAAACTTGGT TCTTAACTAC CATGATTGCT TTTNAGGGCC 180
CGGAATTATA AATATATATN ATATTTAANT TGTTTGAAA 219

SEQ ID NO:2018

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02300

SEQUENCE DESCRIPTION:

GATCCGGGGC ACAAAGAGGG TGGGGAACAT GGGGGCTATA CTGGGGAAAG CAGCCATGCT 60
CCCCCNACC TCCAGCCGAG CATCCTTCAT NAGCCTGCAG AACTGCTTTC CTATGTTTAC 120
CCAGGGGACC TCCTTTCANA TGAAGTGGGA AGAGATGAAA TGTTTTTCCA TATTAAATA 180
ATAAGAACA TTA AAAAGCA ACCCAAAA 208

SEQ ID NO:2019

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02301

SEQUENCE DESCRIPTION:

GATCTCAAGG CTGCCGTACT GGAGGCCATG ACTGCCTTCC GCAGAGCAGG TGCTGACATC 60
ATCATACCN ACTACACACC GCAGCTGCTG CAGTGGCTGA AGGAGGAATG ATGGAGACAG 120
TGCCAGGCC AAGAACTAGA ACTTTAAAC GTTCCCGGG CCTCAGACAA GTGAAAACCA 180
AAGTAAATGC TGCTTTTAGA AA 202

SEQ ID NO:2020

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02302

SEQUENCE DESCRIPTION:

GATCTTCTTT GAGACAAGGC AGGCTGTGGC CATGTAGCCC CATCACA CTG TGTGTGAT 60
TGTCTGTGTG TGTGTCTCCC CCACCAGACT GTGAGCTCCA TGAGGGCAGG GACCGTGTCT 120
TGTCGGTCT CTGTATCCCC AGTGCTTGA ACAGAGCGAG TGCTCACTGT GTATTTAATA 180

AATGGACAAA GAGAGAGGAT GACCCTCAG GGGAGACAGA GAAA

224

SEQ ID NO:2021

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02303

SEQUENCE DESCRIPTION:

GATCGGCAAA TGCATTGGCC TCCTGGTTAA GCACGTTTTG GGGATAATTT TCTCTTCTTT 60
AGGCAATGAT TAAGTTAGGC AATTTCAGT ATGTTAAGTA ACACACTTAT TTTGCCTGT 120
GTATGGAGAG ATTCAAGAAA TAATTTTAAA ACCGCATACA TAATAAAGA CATTGTTGCA 180
TGGCTTATAG TCAAA 195

SEQ ID NO:2022

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02304

SEQUENCE DESCRIPTION:

GATCTGTGCC GTGGTCCTGA GGCAGTTGTC TCCACACAAG TACCTCTAGA ACAATCCCCT 60
TTTTTCCATC AAGCTGTAGC CTGCAGAGAA TGGAAACGTG GGAAAGGAAT GGTATGTGGG 120
GGAAATGCAT CCCCTCAGAG GACTGAGGCA TAGTCTCTCA TCTGCTATTG AATAAAGACC 180
TTCTATCTTG AAA 193

SEQ ID NO:2023

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02305

SEQUENCE DESCRIPTION:

GATCTNCCCT GCATCCTGAC CAAGACCCCA ACCGTGCCCC CAACAGACTC CCCCTGGGAG 60
ATTCAGCCTA TTCCTGATG AGGAAAGTGA AGCCGGGTCT CCTGTCTCCC CAAATTCATT 120
GCACCTACGA TATAGTCCAG GATTGGGTAG CAAGATTAAA CACAAGCGCT TCAAATTGAT 180
GAAAACCACA AA 192

SEQ ID NO:2024

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02306

SEQUENCE DESCRIPTION:

GATCCCTAAC TACCAACCCC CTGAAGGCAG GTACAATGAC ATCACCAGG TGTACACACA 60
AGTGGAGTTT AAGAGATAGA CTTGCAGGCT GCTATCCTTA ACATGCTGCC CCTGAGAGTA 120
GGAATGACCA GGGTTCAAGT CTGCTTTCCA CAGAATCAGG CATNCTGTTA ATAAATACTG 180
GTTTAATCAA A 191

SEQ ID NO:2025

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02307

SEQUENCE DESCRIPTION:

GATCGTATTT CAGTTTTTTG GGTCAATATA TGAACAATGT GTGAACCAGA ACGTATGGTA 60
TTTGACATCA AAGCTATGTC TTGGCATATG TTTATGTTGA TATACTTGAA TTCATTTAAA 120
ATGGAATGTT AATTACATCG ACTTCTTACT ATAAAAATA AAAAGTTATT GTCCAGTGCA 180
CAGAAA 186

SEQ ID NO:2026

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02308

SEQUENCE DESCRIPTION:

GATCCATTGA GAAAGAGATG ATGTAATAAA TAATTAAGAT TAGTAATAAT ATTATCAGGG 60
GTGATTATGA CCAGTTGAAT AATCTCTTTC CCTTGAATTA TTTAGCTAAC AAATTAAGTC 120
TCCCAAATAT NTAAANTAAT GTAAANTCAT ATTNACTGC CCATTATTAA CTAAATATT 180
TNTGTNTGAC TTTGAGCACC AACTGGTAAT ACTAGTAAAT ACCCATGTCA TGCAGATGGC 240
TGGGCGAATA AGAGATGTCT AAAAATATGC ACTGGTCTTG GGAACATGG CACAAGTAAG 300
GNTATCATAT ATGANGTCTG GTTTATTTTA TGTCTGATT CTITTTGANT GAGTAGTTNG 360
GGACTCCANT TCTAAGGNTN 380

SEQ ID NO:2027

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02309

SEQUENCE DESCRIPTION:

GATCTCTCCA CAGGGCTTGT TTTCCAAAGA AAAGTATTGT TTGGAGGAGC AAAGTTAAAA 60
GCCTACCTAA GCATATCGTA AAGCTGTTCA AAAATAACTC AGACCCAGTC TTGTGGATGG 120
AAATGTAGTG CTCGAGTCAC ATTCTGCTTA AAGTTGTAAC AAATACAGAT GAGTTAAAAA 180
AAA 183

SEQ ID NO:2028

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02310

SEQUENCE DESCRIPTION:

GATCTGCAGC TGCCTTGGGA CTTGAATCCA TGCAATGTTT AGAGTGTGAA GTCAGTTACT 60
TGTGATGTT TTCTTACTGT ATCAATGAAA TACATATTGT NATGTCAGTN CTTGCCAGGA 120

ACTTCTCAAC AAAATGGAAT TTNNTTTTNC AGTATTTCOA TAAATATTGA TATGCCCAGC 180
CTGNTAAA 188

SEQ ID NO:2029

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02311

SEQUENCE DESCRIPTION:

GATCCATGCT GATTTTATT GCACAAGAAT TAGGTTTGAA CTCTTGAGCT GGAACCTCAG 60
CAAACCTAGAG TATATATTGT TCAGTATNNC TTTGGAAACA TTTCATTAAT GTACTTGTCT 120
TACANAAATT TCTGAACTTT AGTAAAAAAA AAATAAAGTT AAACCTTTAA AACTCAA 178

SEQ ID NO:2030

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02312

SEQUENCE DESCRIPTION:

GATCGGTATG TTTTGAAAAG AGTAATTTAA CTTTGGGTG CCAGGAAATG GGTTTTCTCA 60
AAGTCCATTG CCGGCAATGG GCAGGCCTGC AAATACTGGC ACAGAGCATT AATCATACAC 120
CTTATTAACG GTGAGGTGAA TAACTTTGAA ATAAAGTTT AGAGAAATGT TTCAAA 176

SEQ ID NO:2031

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02313

SEQUENCE DESCRIPTION:

GATCCGCCTG GCAGCCATTG CAGAGTCAGG GGTAGAGCGG CAAGTACTTT TGGGAGACCA 60
GATACCCAAA TTCGCCGTTG CCACTTTACC ACCCGCCTGA ATCCTGGGAT TCTAGTATGC 120
AATAAGAGAT GCCCTGTACT GATGCAAAAT TTAATAAAGT TTGTCACAGA GAAA 174

SEQ ID NO:2032

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02314

SEQUENCE DESCRIPTION:

GATCCAGAAG TTATGGTGGC TTTCCAGGAT GTGGCTCAGA ACCCAGCAAA TATGTCAAAA 60
TACCAGAGCA ACCCAAAGGT TATGAATCTC ATCAGTAAAT TNTCAGCCAA ATTTGGAGGT 120
CAAGCGTAAT GTCCTTCTGA TAAATAAAGC CCTTNCTGAA GGAAAAGCAA CN 172

SEQ ID NO:2033

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02315

SEQUENCE DESCRIPTION:

GATCTCAGGA CCTCTTTACA CTTTCAAAG TTAATAAGA CTCTGAAGAG CTTTCTTTA 60
TGAGGTTATA TCAATATTTA CTACATTAAA AATTAAAACA GAAAATTTAA AGTAGGTATT 120
TATTGATTTA TTAAACAAT AAAAATAATA AAGTATTACA TGCTAACAAA 170

SEQ ID NO:2034

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02316

SEQUENCE DESCRIPTION:

GATCCGTTTG CTGTGAACCC TATGTTATTT CCATGTGTCA AGTGGGTCTT GTGTTGCCAG 60
CTTCTATTTG AAGATTGCGT TTGCACTCAG TGTAAGTTTC TGTCAGCAGT AGTTTCACCC 120
ATTTGCATGG AAAAAATTTAA AGCTAATAAA GCAATTTAAA AAGCACAAA 169

SEQ ID NO:2035

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02317

SEQUENCE DESCRIPTION:

GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT GGCAAGGTTT CCTAGAGCTC 60
TACTTACAGA ACAGCCCTGA GNCCTGTAAC TATGGGCTCT GAAGGGGGCA GGAGTCAGCA 120
ATAAAGCTAT GTCTGATATT TTCCTTCACT AATATGAAA 159

SEQ ID NO:2036

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02318

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTAGGATG GGGAACTGC CACAGCCAGA ACTGAGGGGC TGGCCCCAGG 60
CAGCTCCCAG GGGGTAGAAC GGCCCTGTGC TTAAGACACT CCTGTGCCC CGTCTTGAGG 120
GTGGCGATTA AAGTTGCTTC ACATCNTCAA A 151

SEQ ID NO:2037

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02319

SEQUENCE DESCRIPTION:

GATCTAACAT CAAACTAACA GCTTTCAGAA AGGAGACTNT TGNCATCTTT TCACCAAGGA 60

GTATATTTGT AGAGTAATAT ATGTGTGGAA NTTNAAATT ATATCATTTG ACATGATTTA 120
TGAGGCTTAT TTAAGCTGGA GTNNNCCN 148

SEQ ID NO:2038

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02321

SEQUENCE DESCRIPTION:

GATCTGGTCT AGTTAACCTA GAAGTATTTT TGTCTCTTAG AAATACTTGT GATTTTATA 60
ATACAAAAGG GTCTTGACTC TAAATGCAGT TTTAAGAATT GTTTTGAAT TTAAATAAAG 120
TTACTTGAAT TTCAAACATC AAA 143

SEQ ID NO:2039

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02322

SEQUENCE DESCRIPTION:

GATCTGGAGG AGGTGAAGGC CAAGGGACCT GCTTCTATTA GCCCTTCTCC ATGGCCCTGC 60
CATGCTCTCC AAACCACTTT TTGCAGCTTT CTCTAGTTCA AGTTCACCAG ACTCTATAAA 120
TAAACCTGA CAGACCATGA AA 142

SEQ ID NO:2040

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02323

SEQUENCE DESCRIPTION:

GATCGAAAGA AGAACATCAT GAAAAANAAA TNACTTTGC TTAGTGGATT AGACTCCTTT 60
GCTGAAGTCA GTTATTCATC AAGAATGCAA TTAGACTAAT TGTGAATAAA TGATTGAATG 120
AAGATATAAT AAATAAAAGC TATAATTATA GATAAA 156

SEQ ID NO:2041

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02324

SEQUENCE DESCRIPTION:

GATCTCTCCT TCAGTCTGCT CTGTTTAATT CTGCTGTCTG CTCTTCTCTA ATGCTGCGTC 60
CCTAATTGTA CACAGTTTATG TGATATCTAG GAGTATAAAG TTGTCGCCCA TCAATAAAAA 120
TCACAAAGTT GGTTTAAA 138

SEQ ID NO:2042

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02325

SEQUENCE DESCRIPTION:

GATCCACAGG CAGAGCCAAG GGAAGGTGTG ATTCTNTGAG GAAAGAGTGA TTCTGATATA 60
TGTA CTGTC ACATTGGTGT TGGACACATT TGGCCAAAA GTATGGTAAT NCTATTATNA 120
AATAATTCTC TGAGAAA 137

SEQ ID NO:2043

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02326

SEQUENCE DESCRIPTION:

GATCCAAACT GGAANCAGCT CAAATNTCCA TCAATAGCAG AAAGATAAAC AAATGTNGGG 60
ATGTNCAGAG CTTGAAATAT GACACANTAT AAAAGGACAA ACTATTAAAA CTCACAACAG 120
CATGGATAAN TCTN 134

SEQ ID NO:2044

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02327

SEQUENCE DESCRIPTION:

GATCCAAGCA GGCCTTGAAT GCAATNGCAA GTGGTTTATA GTCCCTTGCT CTTACAACTT 60
GCAGGGACAT GTGGTTATTT AGAAATTGTG ACTGAGCGGA CCCAAGAATN TAAATAATAT 120
TCATAAACCT AAA 133

SEQ ID NO:2045

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02328

SEQUENCE DESCRIPTION:

GATCACCTGT AGGGAAATGA AGTGTNCCCT GGAACAAGGA GGTGGGGGCA NTGTGGCCCC 60
TTCCCCAACT GGGGGTGGAC AGCTGTNTCC TGGGGTGGGT TGGTATTAAA GAGGAAAGCN 120
ATTTTTTGA AA 132

SEQ ID NO:2046

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02329

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTCT GTGTCTCCCA GCCCATTTCC ACTCCTAGTT 60

TGTCATGGAT AATNTTGT GTTCCCTGTG TGATTTTGC CATCAAAATA AAAATTTGAG 120
ACTCGTTAAA 130

SEQ ID NO:2047

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02330

SEQUENCE DESCRIPTION:

GATCCAAGGT CAAAAAACA AATNCATCAA TTCAGCACAC CACCAACTNA NAGGCTAAGC 60
ATCTTACTGC TAATTCATTG ANGCTGCCAT TTGTCAAGTG CCAAATTGAN TTATTGATTT 120
GTCAATANTN 130

SEQ ID NO:2048

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02331

SEQUENCE DESCRIPTION:

GATCAGATAT AAAAAAATAA AGTTTTTNAT TTCATTAAAT ATTTAATTAA AACTGCTAAG 60
TTTGAAAATT TTACCAAGA AATANTTTN ANAAATTTN CTAAGTGTAA AAAGGCTTTT 120
AAGCAATAAA 130

SEQ ID NO:2049

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02332

SEQUENCE DESCRIPTION:

GATCTATATT CCCTTATGTC ATTTTCCTTA TGTATAATTT TCCAGATGGT GATGTTACTT 60
TTCAGTGTAC TCATATGTCT CATTTTCATC TAAAATTAA TGGCAGGAAA CAAGGACTGC 120
ATAGAGAAA 129

SEQ ID NO:2050

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02333

SEQUENCE DESCRIPTION:

GATCAAAAGC TTATTCNTTT TTTTTTTTTT TTCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60
AAANANATAA TTTTTTTTAA TCATTTTGCN TCTTTTTTTT TTGCTTCATT NAATAAAAAAN 120
TGGAAGAGAN 129

SEQ ID NO:2051

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02334

SEQUENCE DESCRIPTION:

GATCTGAACA CCACAGCCCC TGTACTTGGG TTGCCTCTTG TCCCTGAACT TCGTTGTACC 60
 AGTGCATGGA GAGAAAATTT TGTCTCTTG TCTTAGAGTT GTGTGTAAAT CAAGGAAGCC 120
 ATCATTAAAT TGTTTTATTT CTCTCAA 148

SEQ ID NO:2052

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02336

SEQUENCE DESCRIPTION:

GATCCANCTN TNTCAACCTC CCAAGTAGGA TTACAAGCAT ACGCCGACGA TGCCCAGAAT 60
 CCAGAACTTT GTCTATNACT CTCCCAACA ACCTAGATGT GAAAACAGAA TAACTTCAC 120
 CCAGAAAACA AA 132

SEQ ID NO:2053

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02337

SEQUENCE DESCRIPTION:

GATCCATCCT TCTGCCTCC AAGGAGGATA CACAGAGAAT GGCTTCCTGT TGTTTGTTT 60
 ATTTCTTAA CGTGACAGA TGGAACTTC ATTTAAAAAT AAAACAAAA CAACTCAAAA 120
 AGGAAA 126

SEQ ID NO:2054

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02338

SEQUENCE DESCRIPTION:

GATCAAAAAA GTCACGTCG TATTTCTTCT TTTCCTTCT CTTTCTAGA AATTGGGTGT 60
 TTGTACCAGA ATGGAATTTT GCTTCTCGGT TATCCTGTGC TTCAGATGAT TATAATCTAA 120
 CCCAAA 126

SEQ ID NO:2055

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02339

SEQUENCE DESCRIPTION:

GATCAATCT TACAGTTCAT CACAGAATCC ATGTTGGTGA TAAATNCTAT AAAAGTAATA 60

GGGGTGGTAA GAACATCAGA GANTCCACAC AGGAAAAAAA ATCTATAAAA NGATTCTTTG 120
TGAAA 125

SEQ ID NO:2056

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02340

SEQUENCE DESCRIPTION:

GATCCCACAG AAATGTTTTG GAGAGCGGGA GGTTCCTCCC AATCTCTCC AAGTTCTTCT 60
CCCTCCAACC AGAGTTGTGT CTAACCTTAG GCATCTTTA ATAAATNTNA TTGCGACTCT 120
GAAA 124

SEQ ID NO:2057

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02341

SEQUENCE DESCRIPTION:

GATCACTTCT GAATAAGCAG TTGCCTTTA TAAAACTTG CTGCCTGNCT AAAGATTAAC 60
AGGTTATAGT TTAAATNTGT AATTAATGCT ACCATCTTGC AATAAAGTGA CAATTGAATG 120
NAACAGGGTT TTTCAAGTTG TATAATTCTC TGAAATACTC AGCTTTTGTC ATATGGGTAA 180
AANTTAAAGA TGTCATTGGN CTACAAA 207

SEQ ID NO:2058

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02342

SEQUENCE DESCRIPTION:

GATCTTTACT CTTGAGAAAT GAATAAGCTT TCTCTCAGAA ATGCTGTCCC TATACACTAG 60
ACAAACTGA GCCTGTATAA GGAATAAATG GGAGCGCCGA AAAGCTCCNT AAAAAGCAAA 120

SEQ ID NO:2059

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02343

SEQUENCE DESCRIPTION:

GATCCAAGGT ATCCNTAACA NTGGAGCAGC CAAGTTTNTT TTCAGGCACA ATGACCCTGA 60
CCACCTAAAG AACTTNTAG AGAAGTNTAA CCCTAAGATA CCCAAAATTT TGGCCTTN 119

SEQ ID NO:2060

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02345

SEQUENCE DESCRIPTION:

GATCCCCTCT TCTCAGACAG CGCCAGGCCG GGGTGGGGCC GGGGTGGGG CCGAGCCCCA 60
CAGCTGCCCC CCTCCNTCC CNTTTTGTAT AATTTAATAA AGAAATGGTC GCGCTTCTGT 120
TTTAAA 127

SEQ ID NO:2061

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02346

SEQUENCE DESCRIPTION:

GATCGAGGTG GAGAAGATGC GCGGGGCGGA GNCTTATNAC CGNNTAGAGA ACAGCCCACA 60
GNTGGATGGG AGCCCCCAG GGCTCGAGGG TCTGCTGGGG GGCATTGGGG AGAAAGN 117

SEQ ID NO:2062

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02347

SEQUENCE DESCRIPTION:

GATCTGCTGA GGACACATGC GCTTTGTAG AATTTAACAT CTGGTGTTTT TCTGAAAAAA 60
TATATATACA TATATTGCTT TATTGAAAC AATNAAAAT ATGCTGCATT TGAAA 115

SEQ ID NO:2063

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02348

SEQUENCE DESCRIPTION:

GATCTGGAGG AGGTGAAGGC CAAGGTGCTG CCCGCTGGGC CTCCCAACGG GCCCTCCTCC 60
CCTCCTTGCA CCGGCCCTTC CTGGTCTTTG AATAAGTCT GAGTGGGCGG CAAA 114

SEQ ID NO:2064

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02349

SEQUENCE DESCRIPTION:

GATCCAAAGT ATCAGGTCTG TTAGTGGCCA TCAGCACTTT AATATTGCCT CGAGGAGGAT 60
TTCTTGGNCN CNNAATAA GGCATTAAG TCTTATGCCA AATTCAGTGC TCCN 114

SEQ ID NO:2065

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02350

SEQUENCE DESCRIPTION:

GATCCTAGAT AAGCAGGTGA AATTTAGGCT TCAGAATATA TCCGAGAGGT GGGGAGGGTC 60
CCTTGGAAGC TGGTGAAGTC CTGTTCTTAT TATGAATCCA TTCATTCAAG AAA 113

SEQ ID NO:2066

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02351

SEQUENCE DESCRIPTION:

GATCTACGCT GTGCCTTGGC AGGGCACAAT GACCTTNTAG ANATCCACCT GTTAGAACGC 60
CTAGGGGTCT GAACCGGGCT GGNCTGANN C TATCACCTCT TATGCACAN 109

SEQ ID NO:2067

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02352

SEQUENCE DESCRIPTION:

GATCCCAAGG CCTAGCCTGT GAAGGTCTCC TATCGGAAGA NTACCCCAT NNAATGGGAA 60
GTGGAATTCC TGGTCAANTT GGTCTTNATG CTCTGGAAGA CGTAAGAN 108

SEQ ID NO:2068

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02353

SEQUENCE DESCRIPTION:

GATCTTAAGC AAAAATACTC ACTGAAATAG TATGTGGATG AATTCACCTA CTTACAATTT 60
TATGGTTTCT TTGTAAATAA TAAATGTGAA TCTCAATTCT GCTTTAAA 108

SEQ ID NO:2069

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02354

SEQUENCE DESCRIPTION:

GATCTNGGC TCCACCTGGG TGGCCCTGAC CACGGGAGCC TTGGGCCTAG AGCTGCCCTT 60
GTCCTNCCAG GACCCCNCC TGGCCACTGC CCGCCTACTN NCTN 104

SEQ ID NO:2070

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02355

SEQUENCE DESCRIPTION:

GATCAGAGCT GCTGAGTTCA GGATGCCTGC GTGTGGTTTA GGTGTTAGCC TTCTTACATG 60
GATGTNAGGA GAGCTGCTGC CCTCTTGCG TGAGTTGCGT ATTCAGGCTG CTTTGCTGC 120
CTTTGGCCAG AGAGCTGGTT GAAGATGTTT GTAATCGTTT TCAGTCTCCT GCAGGTTTCT 180
GTGCCCTGT GGTGGAAGAG GGCACGACAG TNCANGCGCA NGTTCCTGGG CTCCTCAGTC 240
GCAGGGGTGG GATGTGAGTC ATGCGGATTA TCCACTCGCC ACAGTTATCA GCTGCCATTG 300
CTCCCTGTCC TGTTTCCCCA CTCTCTTATT TGTGCATTCC GTTGGTTTC CTGTAGTTT 360
AATTTTTTAA TAAAGTTGAN TAAAANTATA AAAANAAGAG NNGGCGNN 408

SEQ ID NO:2071

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02356

SEQUENCE DESCRIPTION:

GATCAAAAGC TTATTCATCT TTTTCTTTT TCCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60
AAAANCATAA TTTCNTTAAN CNATTTTCCC TCTTCTCNT N 101

SEQ ID NO:2072

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02357

SEQUENCE DESCRIPTION:

GATCAAAAAA AGAGTTTGAA GCTAATTTG GCAAAATTCA GGCAAAAAA GTAAGGCCAT 60
TATTTAACCC TGTGGCACCA TTAAATGTTG AAGAATGACA AA 102

SEQ ID NO:2073

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02358

SEQUENCE DESCRIPTION:

GATCTTTTTT GTCAGTTTGT TTGTATGAAA CTAAAGCCNT TATTTGTAA TAGTTCCTGC 60
TAAAACAATG AATAAAACT CAAGGAGCAA CTA 95

SEQ ID NO:2074

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02359

SEQUENCE DESCRIPTION:

GATCGTCTCT AGGATGATAT GCATGTTTCA AGTGGTATTG AAAGCCGCAC TGATGGATAT 60
GTAATAATAA ACATATCTGT TATTAATATA AA 92

SEQ ID NO:2075

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02360

SEQUENCE DESCRIPTION:

GATCTAAGTT AGGAAAGACG ATGGAGGTGG AATCCTTTAA GATTATNTCC AGTTATTTGC 60
TTAATAAAG AAGAAGTTAC CCTTGTCAAA ATCAGAACAA A 101

SEQ ID NO:2076

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02361

SEQUENCE DESCRIPTION:

GATCTTCATT TATTTTAATG GTAATGGTTT TAAAATATGT TCCTGATTGT ACATATTNTA 60
AAATAACAT GTTTTTTAAC ATGCAAA 87

SEQ ID NO:2077

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02362

SEQUENCE DESCRIPTION:

GATCACAAAC ATTCAACAAA AAAGTTAACT TATGTGACTT GGCAGTTATT CTATACCATT 60
TCCTGTCCAT TAAAATTTT AAAGGAAA 88

SEQ ID NO:2078

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02363

SEQUENCE DESCRIPTION:

GATCCCATTT AATATTTAAA AAAATCAGTA GCACAAATAT ATNTNAATTG TCAACTTACA 60
AAATAAATA CATTTACAGT CTAAA 85

SEQ ID NO:2079

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02364

SEQUENCE DESCRIPTION:

GATCATCAAA AAAGAGGTAA TCTACGTTAT TTCCTATTCT AATGTCTTTT CCTAATAAAA 60
AACTTCAACT TTCTAAGTTA AA 82

SEQ ID NO:2080

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02365

SEQUENCE DESCRIPTION:

GATCCTTTCG GAATTGCACT TTTACATGTT GGGCGAATTT GTGTCCGTGC TGAAGTTTAT 60
TAAAGGAAAA TAGATGGAAA 80

SEQ ID NO:2081

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02366

SEQUENCE DESCRIPTION:

GATCAAGCCT TGCTTGAGAT TGGCCTTACC TCTGGNCNTT TTTTGTATA TGAGCTAATA 60
AATNCTGTTT ATTGTTTAAA 80

SEQ ID NO:2082

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02367

SEQUENCE DESCRIPTION:

GATCCATGAA GTNATTCAGT GGAAANATGC ACGTTNATAC TATTNAGAG CACAAATAAA 60
CTCACTATAC AATGGTCAAA 80

SEQ ID NO:2083

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02368

SEQUENCE DESCRIPTION:

GATCAAACCT CAAAGCAGCT TTNACTTGGA ATTTAAAAAT AAACAGTTCA AAGATACTCT 60
ACATTATCAC CNTAAA 76

SEQ ID NO:2084

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02369

SEQUENCE DESCRIPTION:

GATCCATTTC ATGCAGGATT GTGTTGTTTT AACTGTTGTT GAGGAAACTA ATAAATAATT 60
AAATTGTAAA 70

SEQ ID NO:2085

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02370

SEQUENCE DESCRIPTION:

GATCTAAGAT GTCCCAGGTC CTGGGAAGTT TACTCAATAA AGCTGGCTTT CCCCTGCCCT 60
CAAA 64

SEQ ID NO:2086

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02371

SEQUENCE DESCRIPTION:

GATCCGTTGT AATGATGTGA ACATTTTATG AGTTTAAATA AAGTCATCTT ATGGTGT CAT 60
TAAA 64

SEQ ID NO:2087

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02372

SEQUENCE DESCRIPTION:

GATCTTAAAA TCAGTGATTA TCTTTTCTA AATAAAATAT CACCAGAATT CATCAGTTAA 60
A 61

SEQ ID NO:2088

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02373

SEQUENCE DESCRIPTION:

GATCTAAGAT GTCCCAGGTC CAGGAAGTTT ACTCAATAAA GTGGCTTTCC CTGCCANAAA 60

SEQ ID NO:2089

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02374

SEQUENCE DESCRIPTION:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCCTCA TTAAAATTCA CGTCCCACC 60

CTGAAA

66

SEQ ID NO:2090

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02375

SEQUENCE DESCRIPTION:

GATCATGCAA AGAAAAGTTT CAAAAAGATT TATTAAGTTA AACCAGCCTC TTTGCAAA 59

SEQ ID NO:2091

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02376

SEQUENCE DESCRIPTION:

GATCTCAAAT TGCCTCTGAA CCTTTTATAA GACAGTTTAT CTTCATAAA ATTTATTTTG 60

CAATACCACG CAAA 74

SEQ ID NO:2092

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02377

SEQUENCE DESCRIPTION:

GATCAAAGTC TATTTTGCAT AAAATGTCCA ATAATTAAAT ATTGTTATAA AATAAA 56

SEQ ID NO:2093

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02378

SEQUENCE DESCRIPTION:

GATCGGCAGT TGGGAGGGGC GCTCTGAGAT TAAAGAGTTT TACCTCTGAG ATAAA 55

SEQ ID NO:2094

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02379

SEQUENCE DESCRIPTION:

GATCCANTCT TTGACAAACT GAAAAGAACT GAAAATAAAC ATTGCTCTTT CAAA 54

SEQ ID NO:2095

LENGTH:52

TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02380
 SEQUENCE DESCRIPTION:

GATCCCTGCC CCTCCCCACT GGGACGGAAT AAATGCTCTG CAGACCTGGA AA

52

SEQ ID NO:2096

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02382

SEQUENCE DESCRIPTION:

GATCTGCTTA TAGAGCAGGA AGAATAAAGC CACCAACTTT TACCTAGCCC GGCTAATCAT 60
 GGAAGTGTGN CCAGGCTTCA AGTAACTTGA GTTTTAATTT TTTTTTTTC TTGGNAGAGT 120
 AATGTAAAT TTAATGGGG AAAGATATTT AANATTTAAT ACTAAGCTTT AAAAAGAAAC 180
 CTGCTATCAT TGCTATGTAT CTTGATGCAA AGACTATGAT GTTAATAAAA GAAAGTACAG 240
 ANGACACTTG GCATTCAAAG NTTAAA 266

SEQ ID NO:2097

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02399

SEQUENCE DESCRIPTION:

GATCTAGAGA GTGCTCAGAA TTAGGGCCTG GCATTTGGAA TCACAGGANA TATCATCACA 60
 GAAACAACATG TTITAAGATT AGTTCCATCA CTCTCATCCT GTATTTTNAT AAGAAACACA 120
 AGAGTGCATA CCAGAATTGA ATATACCATA TGGGATTGGN GAAAGACAAA TGTGGAAGAA 180
 ATCANNGNGC TGGAGACTAC TTTTGTGCTT TACAAAACATG TGAAGGATTG TGGTCACCTG 240
 GAACAGTCTC CAATCTATGT TAGCACTATG TGGCTCAGCC TCTGTTACCC CTTGGNTTAT 300
 ATATCAACCT GTAAACATGT GCCTGTAAC TACTTCCAAA ATCAAANTCA TACTTATTNG 360
 AGGAANATTC TGATTTNTA GANAAAANNT NGAGCNAGGN GATTATANCN TGTTTGCAAG 420
 TCATGTGGTT TCTTCTCAA TNGGGGGNNA N 451

SEQ ID NO:2098

LENGTH:441

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02400

SEQUENCE DESCRIPTION:

GATCCCAAAC TGTTCCCTTT TTCATTCTTT GAAATGTTAC CACTACAGAC ATTTTTNAA 60
 GGTGAATAAA CAGTTGTNAT GTGCTGTACC TAAATCATG TTTAATCGTA TAAGGAAACA 120
 TTTCAATACA CTTATACAGG AAGAAACTA TAGATGAAGT ACATGTGTGT GATTCAGTCT 180
 GATTCACAGA ATTCTGAGAG TAATATGGAA TAAACAACCT CCACTTAGAT GATAACTGAA 240
 GCATTTCTCG CCTTGTAAGAA ATTTGGNTTT TAAATTGCTG TTAGAATGGG NAATTTGGAC 300
 ACTTTATATC ATTGTATANT TNCAGACTTT AGNTTCTGTA TCTNTTGGGA ACCATGGTTA 360

TAGCAAAACC NTTGNAATA ATCCTGTTTC CNANACCNCC CTNNATGTAA ACCTGGTATG 420
CTTGGCTGGT AACNCCTAAG N 441

SEQ ID NO:2099

LENGTH:440

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02401

SEQUENCE DESCRIPTION:

GATCTATGTC TNCTGCCTGG CTCCTAGATG GCTCTCCGGG CAGGTNCTGG CCAAGGACAT 60
CATCTAGGCA GGGGGAGAGC CTGGNCTGAA CAGCTGTNAC CAAAACTCCC TTCTNCCCCA 120
CCCTGCCCCC TCCACTTCCT GCCCTCTGTT CCATCTTCCC CCTTCCCAA GGCCACAGCC 180
TTTATTCCAG GCCCAGGGAT GTAGGAGGGG GAAGGAGGAA ACAGGAAGCC CAGAGAGGGC 240
AAAGGGCCTA CCTCGGGGCG CGAACCATGC CCCANACTAT TATCTCAGGG CTTTCTGGGC 300
ACTNGCACTT CAGCGTGGCC CACCTGCCCC TGCCCTGAGG CCAGTTNGCG AGGGGTGGCT 360
CCTGAGGGTT TTTATAACCT TTGTTGNTA ATGTTTAATT TTTGCATCAT AATTCTACA 420
TTGTCCCTGG AGTGTAAGAN 440

SEQ ID NO:2100

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02402

SEQUENCE DESCRIPTION:

GATCAAAAGG CTGAAAGGTT TGCTCACCCA GCACGGCATC CCCTACACGA GGCCACAGA 60
AACTTCCAAC TTGGAGCACT TGGGCCACGA GACGCCAGA GCCAAGTCTC CAGAGCAGCT 120
GCGGGGTGAC CCAGGACTGC GTGGGAGTTT GTGACCTTGT GGTGGGAGAG CAGAGGTGGA 180
CGNGGCCGAG AGCCCTACAG AGAAGCTGGC TGGTAGGACC CGCAGGACCA GCTGACCAGG 240
CTTGTGCTCA GAGAAGCAGA CAAAACAAAG ATTCAAGGTT TTAATTAATT CCCATACTGA 300
TAAAAATAAC TCCATGAATT CTGTAAACCA TTGCATAAAT GCTATAGTGT AAANAAATTT 360
AACCAAGTGT TACTTTAAAC AGTTCGTACA AGTAATGNTT ATAATTCTAA A 411

SEQ ID NO:2101

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02403

SEQUENCE DESCRIPTION:

GATCTGGAAA GCTTGAGCCT CCTTGGGTTT GTCTACAAAT TGGAAGGAAA TATGAATGAA 60
GCCCTGGAGT ACTATGAGCG GGCCCTGAGA CTGGCTGCTG ACTTTGAGAA CTCTGTGAGA 120
CAAGGTCCTT AGGCACCCAG ATATCAGCCA CTTTCACATT TCATTTTATT TTATGCTAAC 180
ATTTACTAAT CATCTTTTCT GCTTACTGTT TTCAGAAACA TTATAATTCA CTGTAATGAT 240
GTAATTCTTG AATAATAAAT CTGACAAAAT ATTAGTTGTG TTCAACAATT AGTGAAACAG 300
AATGTGTGTA TGCATGTAAG AANGAGAAAT CATTGTATG AGTGCTATGT AGTAGAGAAA 360
AAATGTTAGT TAACTTTGTA GGAAATAAAA CATTGGACTT AACTAAA 408

SEQ ID NO:2102

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02404

SEQUENCE DESCRIPTION:

GATCCGAGAG GTGGCCAACA AAGTCAAGGT CCCCTGCTG GATTAGGCA GCCCCAACT 60
GGCCATGCAC TCTATCCGGN AGATGGCCTG CACCACAGGA GTCCTCCANA CCCTNACCCT 120
CTTCAAGGGC TTCTTTAAGC TGTTCCCTTC TCTAAGCCAT AATCTCTNAG TGGATTGAGC 180
CCTCTTGGA AGACTTCTCT GCCATCCCTT TGCACCTGAN AGGGGAAGTT CTCAGCTGAG 240
CTGAAGCTGG ATTATTAAG TGGATTGTAA CTCAGACTCT CCGTGCTACG CTTATTTGGA 300
GACTAGAGGA GTGGGAGTTG AGCCTGGCTT GAACCTTTGG AACCAGAAAA GTTGGGGAGC 360
AGGTGGAGGA GGCCCACTC CTGGGAGCTT GATGGTN 397

SEQ ID NO:2103

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02406

SEQUENCE DESCRIPTION:

GATCAGCCCT TTTCCCATC CTGCCCTATG GTTCTCTAGC CACCTGTGCA TGCATGTGTA 60
TTTCTGCCTN GTTCTATGGT GTGTGGATGT GTGTGCATGA ATCTGTCATA TAGAGGGGGT 120
CCGAGCTGGA ATCCTAGAGC ATTGTGCCC TGGGGCCTGA TGTCTTGGC TTCCTCAGAG 180
CATGTAACAG GAAATTAAT GGGATGAGTG TTTGGTAAA 219

SEQ ID NO:2104

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02408

SEQUENCE DESCRIPTION:

GATCCTACCT CCAACTCCTG ACTCTATAGG TCTCACTCTT TTTTATTGT CCTANNNTA 60
CATAACATAA AATTATATAA TTTAATATTC TAGGGTATAG TTCAGTGGTA TTAAGTACAT 120
TCACACTGAT GTGCAACCAT CATTATCATC CATTCCCAA ACTTTTCATC ACCGCAAATA 180
GAAAAGCTGT ACCCATGAAA CAATAACTTC CATTGCCTCC CCCTCAGCCT TTGGTAACCT 240
CTATTCTACT TTCTGTTTCT ATGAATTTGA CTGTTCTAGG TACCTCATAT AAGTGAATC 300
ACACAATATT TGTCCCTTTG TGTCTAACTT ATTTCACTTA GCATGTTTTC AAGATTTATC 360
TGTACTGTAC CATGTATCAN 380

SEQ ID NO:2105

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02409

SEQUENCE DESCRIPTION:

GATCTGTGCT CTCCTAGCCC AAGAGACCCC TGGAGGGGCT GGAGTTTAT CCAGCGNCTC 60
 GTCGTATGTT TGGCTGAGCA CCTGTGGCCT GGGTGCAGGT TAACTTCTTG TTATCAGGAG 120
 CCCACTATGC AGAGGCCAAA GGTGGGCAGC CAGCGAGGCT ATGAATTGGA CCTTTTGGT 180
 ATCTGTGTNA CTGNTCTGTG NCCATNCTTA GNCAACTTGC TGGCGTGACA AGTGCCACACA 240
 AGTAACACAC CAGGTACCCA GAGNAGGGTG GACAGGAGAG ACCTGAATNA CAGCAGTANG 300
 GAATTCCTCA ANGNTGTGNC CTCGCCCATG AANTTGTTC AANTTGAAGG TNANNAGGGN 360
 CACCAATCAG GGTGAGN 378

SEQ ID NO:2106

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02411

SEQUENCE DESCRIPTION:

GATCCAGAAG TACAAGGTGG TCCTGGCCCC GGAGACGGNG GAGTTGAAGA GTGTGGCCCG 60
 CATTGTCTTG GTTCCCAATA AGAAAGTGGG CCTGCAGTTC CTGCAGAGAC AGTGCTGAGC 120
 TGAGTCTCCG CCTTGTGGG GCTTGTCTTA GAGGCTCCAG CTCTGGCACA GTGGTTCCTG 180
 GCTGCTGCCA TGTCTCANAT GAGGAGGGAG AGAAGGAGGC CGCCAGACTC GAGAGGTGGG 240
 AGGAACTCCT TGCACACACC CTGAGCTTTT GCCACTTCTA TCATTTTGA GAACTCCCTC 300
 TCAGCTAAAA GGCCACCCTT TTATCGAATG CTGTCTTGG GAAGATATAA AATAAAGGGC 360
 TTTATTCT TAAA 374

SEQ ID NO:2107

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02412

SEQUENCE DESCRIPTION:

GATCCAGCCC GACCTGCGAG ANTGATGGAG ACCATGCACC GCATGAGCCA CCTCCCACCC 60
 GACTTTGAGG GCCGCCAGAC GGTGAGCCAG TGGCTGCAGA CCCTGAGCGG ATGTCGGCGT 120
 CAGATGAGCT GGACGACTCA CAGGTGCGTC AGATGCTGTT CGCCTGGAGT CAGCCTACAN 180
 CGCCTTCANC CGCTTCCTNA TGCCTGAGCC CGGGGANTAG CCTTGNACAG CCGGGAGAGT 240
 CTGAGGCNTG GTCCTGGTCC CTGTCCGCAN AGAGGCCGTG NNATCACANA GCTANTGTCT 300
 GAGTGGCTGT CTGNTCTGCT TTTGGGTAAG ACTTTGGGGC CGGCCTCCCA NAATAAGGTG 360
 TCTCGGAAA 369

SEQ ID NO:2108

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02413

SEQUENCE DESCRIPTION:

GATCAGAGCC AAGAAGCGTC TGCGGCAGAG TGGGGAAGAG TTGCCGCCAA CCTCCTAGGC 60
 GCCCCGCCCA GCTCCCTTTG ACCCTGGGG CAGGGCAGGG GGCAGGGAGA GACAAGGCTG 120

CTGCTATTAG AGCCCATCCT GGAGCCCCAC CTCTGAACCA CCTCCTACCA GCTGTCCCTC 180
 AGGCTGGGGG AAAACAGGTG TTTNATTTGT NACCGTTGGA GCTTGGATAT GTNCGTGGCA 240
 TGTGTGTGTN TGTGTNANAG TGTGAATGCA CAGGTGGGTA TTAAATCTGT ATTATTCCCC 300
 GTTNTTGAA TTNNTTCCC CNATGGGNC TGGGTACTTT ACATTCAATA AATACTGTTT 360
 AACCCAAA 368

SEQ ID NO:2109

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02414

SEQUENCE DESCRIPTION:

GATCACAGGA AGTGGAGGAG CCAGAGGTGC CTTTGTGGAG GACAGCAGTG GCTGCTGGGA 60
 GAGGGCTGTG GAGGAAGGAG CTTCTCGGAG CCCCCTCTCA GGCTTACCTG GGCCCCCTCT 120
 CTAGAGAAGA GCTCAACTCT CTCCCAACCT CACCATGGAA AGAAAAATAAT TATGAATGCC 180
 ACTGAGGCAC TNAGGCCCTA CCTCATGCCA AACAAAGGGT TCAAGGCTGG GTCTAGCGAG 240
 GATGCTTGAA GGAAGGGAGG TATGAGACCG TAGGNANAAN GGCACCATCC TCGTACTGTT 300
 GTCACATAGA GCTTAAGAAA TTTGATACCA TAAAATGGTA AAGACTTGAA AAAAGTANAA 360
 NATGTTTN 368

SEQ ID NO:2110

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02415

SEQUENCE DESCRIPTION:

GATCTTGGTT TTGATGTGGA CATAGGCCCT CTTTCCAGA CTCCTCGTGA AGTGGCCAG 60
 CAGGCTGTGG ATGCGGATGT GCATGCTGTG GCGGTAANAC CCTCGCTGCT GGTCATAAAA 120
 CCCTAGTTCC TGAATCATC AAAGAACTTA ACTCCCTTGG ACGGCCAGAT ATTCTTGTC 180
 TGTGTGGAGG GGTGATACCA CCNTCAGGAT TATNAATTC TGTTTGAAGT TGGTGTTC 240
 AATGTATTTG GTCCTGGGAC TCGAATTCCA AAGGCTGCCG TTCAGGTGCT TNATGATATT 300
 GAGAAGTGT TNGAAAAGAA GCAGCAATCT GTATAAATA AAAATATCAC AAGAGAACAC 360
 CTGTACTN 368

SEQ ID NO:2111

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02416

SEQUENCE DESCRIPTION:

GATCGAAAGA AATCTAAGTG ATACGGCCCA ATGAAGCTAA AATATAGCCT TCTGTTAAGC 60
 AAATAGTATT TCCTTTCCCC AAGTAGTCA TTTCTAGAT GCTTGTCAAA TGAATTAATG 120
 TCCTCTGATG AAGAGTGTCC TTCCGTTTCT AAGGTCTTCT CAATCTCAGC AATAGAGCTT 180
 CCCAGCAGCG TTCAAGACAC ATCATTATA CACAGGCACA GGGGCCCTTC TGAATGGGT 240
 GCATTTTAC CAACTACAA CATGTAATTT TTTTGAAAT TTTTAAAT TTTGNTNCT 300

2153480

TTACATTACA ATTGGGTGAA ACACATTTTA CAGCTCTCAA TAAATGTTTG CTGGTCGCTC 360
TGAAA 365

SEQ ID NO:2112

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02417

SEQUENCE DESCRIPTION:

GATCAACGAT TACGTGGAGA AGGGTACTCA AGGGAAAATT GTGGATTTGG TCAAGGAGCT 60
TGACAGAGAC ACAGTTTTTN CTCTGGTGAA TTACATCTNC TTTAAAGGCA AATGGGAGAG 120
ACCCTTTGAA GTCAAGGACA CCGAGGAAGA GGACTTCCAC GTGGACCAGG TGACCACCGT 180
GAAGGTGCCT ATNATGAAGC GTTTAGGCAT GTTTAACATC CAGCACTGTA AGANGCTGTC 240
CAGCTGGGTG CTGCTGATGA AATACCTGGG CAATGCCACC GCCATCTTCT TCCTGCCTGA 300
TGAGGGGAAA CTACAGCACC TGGAAAATGA TTGACCAAAA TACCAAGTCT CCCCTTCTTC 360
ATN 363

SEQ ID NO:2113

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02418

SEQUENCE DESCRIPTION:

GATCCCAGTC GCATACCAGG TGTCTCCTC CAGGTCGTGA ACGGCAAAGG CACTGCCCGC 60
ATCGCCATAG CAGGTGTCTT CTTGGTACTT AGACATGCCA GCACAGAAGG TGTGTTCATT 120
CAGTATGGGC TGCACCCCTA CAGGGCTCTT CGGTGTCTTC CATCCAGGAC TGGGTTCAGA 180
AGACCATAGC TGAGAACTAA TGCAAGGCTG GCCGGAAGCC CTTGCCTGAA AGCAAGATT 240
CAGCCTGGAA GAGGGCAAAG TGGACGGGAG TGGACAGGAG TNGATGCGAT AAGATGTGGT 300
TTGAAGCTTG ATGGGTGCCA GCCTGCATTG CTGAGTCAAT CAATAAAGAG CTTTCTTTT 360
GN 362

SEQ ID NO:2114

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02419

SEQUENCE DESCRIPTION:

GATCNGACAG GCACCAGCAA TGACACAGCA TAAACTGTTG GGCACAGGAA AGAGGCTTGA 60
CACCACCAGC CCACCAGGAA ATGCAGTTCA GCCACCACGA GGACACGAGG AACCTGCACC 120
ACAGCCGCAG TCAAGAGAAT GCTGGTGGTG CCAAGNTGCA GGGTGTGGCC TGCTGGAATG 180
GAAGCGCATG GTGGTNNCTA TAAAGTCAAT GNCACAGCAC ATGCCAGCA ATCCACTGTG 240
GGATTNGA TGANACTANG CNCATAAAAC TGTNCGAATT TTNCTGTGCT TTTCATATCN 300
TCAATNTGAA TCAANTGCTT CATTGGGTAC TGTAAGTGTG GNTACTTNAG TGAATCTCTN 360
TN 362

00824

SEQ ID NO:2115

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02420

SEQUENCE DESCRIPTION:

```
GATCATATAG TAGGTTTAGG TTAACTTTT TAAGAAATTG CCAAGCTTTT CCAAAGTGGC 60
TGTCCTCTT TACATTTCCA CCAGCAATGT ATAATGAATG GTTCAGGTTT CTCCACATTC 120
TTGTCGGCAC TTGGACTTTT CTGTTTGTG GTAGCCATTC TAGTGGATGC AAAGTGGCAT 180
CTCATTATGG TTCATTTGCA TTTCTCTGAC AACTAATGAT TTTGAGCATC TTCATGCGAT 240
TGTTAACCAT TTGTATATCT TTAGTGAAAT ATCTATTCAA TTATTGCCCA TTTTAAATT 300
GGNTCACATG GCTNATTAAT GNATTGTAAG AAAGGTTTAC ATATTCCTGG ATACN 355
```

SEQ ID NO:2116

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02421

SEQUENCE DESCRIPTION:

```
GATCATGATT TTGTAGTACA GGAAGACTTC ATGAAAGCAG TCAGAAAAGT GGCTGATTCT 60
AAGAAGCTGG AGTCTAAATT GGACTACAAA CCTGTGTAAT TTAGTGTAAG ATTTTGATG 120
GCTGCATGAC AGANGTTGGC TTATTGTAAA AATAAAGTTA AAGAAAATAA TGTATGTATT 180
GGTAATGATG TCATTAAGAG TATATGANTA AAAATATGAG TAACATCATA AAAATTAGTA 240
ATTCAACTTT TAAGATACAG AAGAAATTTG TATGTTTGT AAAGTNGCAT TTATTGCAGC 300
ANGTTACAAA GGGGAAGTGT TGAAGCTTTT CATATTGCT GCGTGACATN 350
```

SEQ ID NO:2117

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02422

SEQUENCE DESCRIPTION:

```
GATCCGCAGN CAGAAGCTCT GCCCTTCTGT ATCCTATGTA TGCAGTGTTN TTTNCTTGC 60
CAGCTTGGGC CATTCTTGCT TAGACAGTCA GCATTGTNT CCTCCTTTAA CTGAGTCATC 120
ATCTTAGTCC AACTAATGCA GTCGATACAA TCGTAGATA GAAGAAGCCC CACGGGAGCC 180
AGGATGGGAC TGGTCGTGTT TGTNCTTTN TCCAAGTCAG CACCCAAAGG TCAATGCACA 240
GAGACCCCGG GTGGGTGAGC GCTGGCTTCT CAAACGGCCG AAGTTGCCTC TTTAGGAAT 300
CTCTTTGGAA TTGGGAGCAC GNTGNCTCT TGAGTTTGA GCTTTTAAAA GTACTTTNTT 360
TACCACATT GGAAA 375
```

SEQ ID NO:2118

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02423

SEQUENCE DESCRIPTION:

GATCTCTAAC CAGAAATAAA CAGGAAGACT CAGTNGTTTA CAAAAGACAT TTAGTTTTTA 60
CACGTACAGA AAATTCTACC CNGGCATTAC AGAATTCTTA GACTTCTTAA ATTCCTGATT 120
TTCCTTGGTA TTTACATTTT GATAAGGGAG CCAATGGTTC TTCAAACATT TGAAAAGAAC 180
ACATACACAC TGGACAATTT CAAACGNTAC AAACAAACGC AACTGTCCTT CTTTCTCATT 240
CCTGTCCTTC AGCCACCCAG TTTCTTCTCC CCTGAGGGAA TCAGTTATCA TTNGCTGGGT 300
CATACTTCCA GATTATCCTG TGCCTATGTA AGTGTGTGN 339

SEQ ID NO:2119

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02424

SEQUENCE DESCRIPTION:

GATCTGGGAC GTNACGAGT NAGGGGCTGG CCACCCAGCC CACAGCCTTG CCTGACCACC 60
CTCCAGCAGA TAGACGCCGG CACCCCTTCC TCTTCCTAGG GTGGAAGGGG CCCTGGTNEN 120
NGCCTGTAGA CCTATCGGNT CTCATCCCTT GGGATAAGCC CCAGTCCAGG TCCAGGAGGC 180
TCCNTCCCTG CCCAGCGAGT CTTCCAGAAG GGGTGAAAGG GTTNCAGGTC CCGACCACTG 240
ACCNTTCCCG GGTGNCCTCC CTCCCANCT TACACCTNAA GCCCAGCACG NAGTAGNCTT 300
TGAACAGAGG GAGGGAAGGA CCCATGGGTC TCCN 334

SEQ ID NO:2120

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02425

SEQUENCE DESCRIPTION:

GATCAAAGAG AAAATAAAAA ATCGCTACTT CCCTGCCTTT GAAAAAGTCT TAAAGAGCCA 60
TGGACAAGAC TACCTTGTG GCAACAAGCT GAGCCGGGCT GACATTCATC TGGTGGAAGT 120
NCTCTACTAC GTCGAGGAGC TTGACTCCAG TCTTATCTCC AGCTTCCCTC TGCTGAAGCT 180
CTCCAGGACA CTGGCCCCC ACACTGTATC TCTCACTGAG AAAAGGTGGT CCCATGGCCC 240
TGAAAACCAG AATNAGCAAC CTGNCCCACA GTGAAGAAGT TTCTACAGCC TNGGCAGCCC 300
AAGGAAAGCC TCCCATTGGA TGAGAAATCN 330

SEQ ID NO:2121

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02426

SEQUENCE DESCRIPTION:

GATCGAAGTA AAATAGAAAT GGGACTNGCT TTCCACAGGA AGTAAACTGC TTCAGAGCCC 60
ACAGTCCCCT GCTCAGTGTC CGGAAAGAAG TCAGTCATCC CTGTTGGCAG TAAATCTTCC 120
CACAGGCCGT CCATTAGAGA TTAACTAGA TATGTTCAAT AGAAAGAGTC TGAGGCAAGT 180
GGAAATGAGG NNCGGAAACT TAGGTTGGGA GAATATTTT NNTNTATTCA TTCTGTTTGC 240
TTAATTCAGA GTACAGTTTG TGCTATTTC TATCTGTACT CCAGGCAGAA ATATAACTTG 300

AAAATACTGT GTCTAAAGAA ATTTCAN

327

SEQ ID NO:2122

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02427

SEQUENCE DESCRIPTION:

GATCCTCGTC ATCAAGGATG GCTGCATCGT GGAGAGGGGA CGACACGAGG CTCTGTTGTC 60
CCGAGGTGGG GTGTATGCTG ACATGTGGCA GCTGCAGCAG GGACAGGAAG AAACCTCTGA 120
AGACACTAAG CCTCAGACCA TGAACGGTG AAAAAAGTTT GGCCACTTCC CTCTCAAAGA 180
CTAACCCAGA AGGGAATAAG ATGTGTCTCC TTCCCTGGC TTATTTTCATC CTGGTCTTGG 240
GGTATGGTGC TAGCTATGGT AAGGGAAAGG GACCTTTCCG AAAACATCT TTTNGGGGAA 300
ATAAAAATGT GGACTGGTGC GAGN 324

SEQ ID NO:2123

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02428

SEQUENCE DESCRIPTION:

GATCTGAACA TTCAAAGAA AGCTTTGGAA AAAAAGAGCT GGCTGGCCTA AAAACCTAAA 60
TATATGATGA AGATTGTAGG ACTGTCTTCC CAAGCCCCAT GTTCATGGTG GNCCNNTGGT 120
TATTTGGTTA TTTTACTCAA TTGGTTACTC TCATTTGAAA TGAGGGAGGG ACATACAGAA 180
TAGGAACAGG TGTTTGCTCT CCTAAGAGCC TTCATGCACA CCCCTGAACC ACGAGGAAAC 240
AGTACAGTCG CTAGTCAAGT GGTTTTTAAA GTAAAGTATA TTCATAAGGT AACAGTTATT 300
CTGTTGTTAT AAAACTATAC CCACTGCAAA AGTAGTAGTC AAGTGTCTAG GTCTN 355

SEQ ID NO:2124

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02429

SEQUENCE DESCRIPTION:

GATCTCAGAA CTGAAGGCCG CCCTGACATG AAGACTGAGC TCTTTTCCAG CTCATGCCCA 60
GGTGAATCA TGCTGAATGA GACAGGCCAG GGTACCAGC GCTTCTCCT CTACAATCGC 120
TCACCACATC CTCCGAAAA GTGTGTGGAG GAATTCAAGT CCCTGACTTC CTGCCTGGAC 180
TCCAAAGCCT NCTTATTGAC TCCTAGGGAA TCAAGAGGCC TGTGAGCTGT CCAATAACTG 240
ACCTGTAAC TCACTAAGT CCCAGATGG GGNACANTGG GGAGNTNGAG TTGTTGGAGG 300
GAGGAAGCTT GGAGACTTCC CAGN 324

SEQ ID NO:2125

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02430

SEQUENCE DESCRIPTION:

GATCCATCTT CATCCATTGC ATTGGAAACT NCTTTATGCT GCTGCAGTCT GCAAAGTCTA 60
 GAGCTTTTAT CAGGCCATGT CATACCCAAG AAAGCACCTA TTAAAGAAA AAACAATTCC 120
 CTGAGCTCTC AACTCCAAGT TGTAGATTG GTGTCTTCCT TGTCTTACT TAAAAAGTC 180
 ATGTGTTAAT TTTNNTCCTG CCTGTATTG TATGCAAAAT GTCCTCTATC TGCTATNAAA 240
 GAAAAGCTAC GTAAACCACT ACATTGTANC CTTCTAAGTN ATNTTAATT AGNAGGGNAT 300
 TATNTTGCAG TACCANTTGG GAAA 324

SEQ ID NO:2126

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02431

SEQUENCE DESCRIPTION:

GATCGTGAAG ACCTGCTGAG CCAGCCTGTT CTCGGGGCCT GAATGTCTGG GGTGCTTGTG 60
 CCTTTTCTGA GAAGCGTTGT GACTGCTCAA CATCCCCATC AAGGTTTGAG TCCACAAAAG 120
 TGGACCTCCC TATCATGCTT CCCCTTCCCT CTAGCATGTG GGAAGGGACT GCTGTGAAGA 180
 ATGNCAGATG TGGGGCCTCT GCCAAGTTCT TGCATTGCTA AATAAGGGCT TCCTCTGCCT 240
 TCTACCTACA GTGCATTGTA ACTGCCTTCT GAAAGAGGTC CAGGGAGGGA TTTAGGAAAT 300
 AAAGNTTCTA CCTATTGAA A 321

SEQ ID NO:2127

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02432

SEQUENCE DESCRIPTION:

GATCCTAAGC GAAGATGGAT TTCAGTTCAT CAAATCATCA TTAATGACTT TATGTATTAT 60
 TTGCACAGGG AGAATTGAAA CTGAGTATAA TCAATAAGCT AGATACGAAA TCAGTTTCTC 120
 AAACTGAGCT TCAGAAAGGG GCATTTTGTA CTCTTGTTTT TGCATAACTG GTTTTGTTTT 180
 TTTGCAGAAAT TAACTATAAC ANTCACTGGC TACCGAAGTA AACTGATGTA CTGAATTCCA 240
 TAATACATAA CATTCAATTT TTACCACTNC TGTTTAGCGA ACTTGTATAC TTATTCCTG 300
 TTCAGNTTAA AAAAAGAAA 319

SEQ ID NO:2128

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02433

SEQUENCE DESCRIPTION:

GATCACACCT GAAAGCAGTG GTCCCAGCTC TGTGCTGTGG GACATCACAG GTCCTAAACA 60
 GTGATAGAGA AAGGGCTGGG GAGTGGCAGC TGGAACTCTCT GCTTCCGTCT GAACATCTGG 120
 ACACACATGT CAGAGAATCT TTGCATTAAG TGGACTGCCA AATCTATTTG GTGATTAAAT 180
 GGCTGTGCGG TGAGGGGAGA ACCCTGGGCA GTCTGGAGAC TGAGGTGCCA TTCTCGGCTA 240

GAGACACCAC CCAAAGAAGA GATGGGCTGG CTAATAAGA CAAGTNTCAG TTGAATAAAT 300
GTCTTTAAAC CTAAT 315

SEQ ID NO:2129

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02434

SEQUENCE DESCRIPTION:

GATCATTGTC CCTACAGACA CCCAGAACAT CTTCTTCATG AGCAAAGTCA CCAATCCCAA 60
GCAAGCCTAG AGCTTGCCAT CAAGCAGTGG GGCTCTCAGT AAGGAACTTG GAATGCAAGC 120
TGGATGCCTG GGTCTCTGGG CACAGCCTGG CCCCTGTGCA CCGAGTGGCC ATGGCATGTN 180
TGGCCCTGTC TGCTTATCCT TGGAAAGTGA CAGCGATTCC CTGTGTAGCT CTCACATGCA 240
CAGGGGCCCA TGGACTCTTC AGTCTGGAGG GTCCTGGGNC TNCTGACAGN AATAAATAAT 300
TTCGTTGGAA A 311

SEQ ID NO:2130

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02435

SEQUENCE DESCRIPTION:

GATCCCAACT GCTCCTGCGC CGCCGGTGAC TCCTGCAAAT GCAAAGAGTG CAAATGCACC 60
TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGTT GTGCCAAGTG TGCCAGGGC 120
TGCATCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG CCTGATGCTG GGACAGCCCG 180
CTCCAGATG TAAAGAACGC GACTTCACA AACCTGGATT TTTTATGTAC AACCTGACC 240
GTGACCTTTT GCTATATTCC TTTTCTATG AAATAATGTG AATGATAATA AAACAGCTTT 300
GACTTGAAA 309

SEQ ID NO:2131

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02436

SEQUENCE DESCRIPTION:

GATCCTGGCC TCGCAGTTCC TATCCCNTGA CCCAGAACAG CTCACCAAGG AGCTGCAGCA 60
GCATGTGAAG TCACTGCAGC CCATACAAGT CCCAAANAAG ATAGAGTTTG TTTTGAACCT 120
GCCAAAGCTG TCACAGGGAA ATTCAACAGA CCAAACCTCG NGNCAAGGAG TGGAAGATGT 180
CCGGAAAAGC CCGTNCGAGT GAGNCGTCTA GGAGCATTCA TTTGGATTCC CTCTTCTTTC 240
TCTTTCTTTT CCCTTTGGGC CTTGGCTTAC TATNATGATA TGAGTCCTTT ATGAAGACAT 300
GATGAAA 307

SEQ ID NO:2132

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02437

SEQUENCE DESCRIPTION:

```
GATCCTGGTG GCGACCATGG AGAGGAACT GGAGGGCAGG GATGGAGCTG AAANCTTGGC 60
GGCCCAGAGA GAGGTCCACC CCAAGCAGCC TGAGCCCTCA GCCACCCCCC AGCTCCCTGG 120
CAGCTCCCCT CCACCTGCCA ATGTCAGCGC CACACTGGTG TCTGAAAGGA ATAAGGAGAA 180
CAGGACAGAC TAACTTTTAA AATGATATGA AGAAATCAGA GGTGAAAATT GTACATTGGG 240
AATATATTTA TGCAAATTTT ATTGAAATTT ATTGTAAATA AAGATTTTCT CAGTGGTCTA 300
GANAAA 306
```

SEQ ID NO:2133

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02438

SEQUENCE DESCRIPTION:

```
GATCTGGGCT GGTCCCTTTC CCATAAAATN AGGTCCCTGG TTGTATGTTC CCATAGCACC 60
CCATACTTCC TCTCTNAGAA TAATCATTTT CCTTGTAATG CTCAGCATCC GCATCCTGCT 120
TGA CTGCAAA CTTGCTGAAG GTAGGGACTG TTTGTCTTGG ACTTCGCTGC CAGTCCTTAG 180
AACAGTGTCT GGGACACAGT GTGTTCTCAA ATATTTGTG CTGGAATAAA TGAATGACCT 240
AAATCAGTCT TTTAGGGATT TACTGTTAAC CACCATGGGA AAATTAATA AATGCGGGGA 300
AGGAAA 306
```

SEQ ID NO:2134

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02439

SEQUENCE DESCRIPTION:

```
GATCTGACCC CACAGCCTTT GGCCTGCTCA CCGGACCAGC CTGGGCCGCA TTCCCTGCAG 60
GACCTCCCGG GTCAGGCAGG GCGGCCCCCT GCTCCACACA CTGCTGCATC TTGGGTCTCA 120
GGGACCCAGA CAGATGGACT TACATGGAGC TGGGCACTGC CCTGCCTCAA CAGGGTCCAT 180
TGCCTCCTCG CCTCCAGAAC TTGGAGCAGG GAAGTGGGCA CCCTGAGGCC TCCAGCACCA 240
GTTCCGTCAT TCTCGTTCCT GGGGAACCCC CACTCTGACC TGTATTAAA GTTCACATTT 300
TGAAA 305
```

SEQ ID NO:2135

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02441

SEQUENCE DESCRIPTION:

```
GATCAACCTG AGAAAAATTG CTGAGCTCAT GCCAGGAGCA TCAGGGGCTG AAGTGAAGGG 60
CGTGTGCACA GAAGCTGGCA TGTATGCCCT GCGAGAACGG CGNGTCCATG TCACTCAGGA 120
GGACTTTGAG ATGGCAGTAG CCANGGTCAT GCAGAAGGNC AGTGAGAAAA ACATGTCCAT 180
```

CAAGCANTTA TGGANGTGAG TGGACAGCCT TTGTGTGTAT CTCTCCAATA CAGCTCTGTG 240
 GGCCAAGTAA A 251

SEQ ID NO:2136

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02442

SEQUENCE DESCRIPTION:

GATCTGCATC CCCAAAAGTA TCACTCCTTC TCGAATCCTT CAGAACATCA AGGTGTTTGA 60
 CTTACCTTT AGCCCAGAAG AGATGAAGCA GCTAAATGCC CTGAACAAAA ATTGGAGATA 120
 TATTGTGCCT ATGCTTACGG TGGATGGGAA GAGAGTCCCA AGGGATGCAG GGCATCCTCT 180
 GTACCCCTTT AATGACCCGT ACTGAGACCA CAGCTTCTTG GCCTCCCTTC CAGCTCTGCA 240
 GCTAATGAGG TCCTGCCACA ACGGAAAGAG GNAGTTAATA ANNGCCATTG GANGCATNAA 300
 A 301

SEQ ID NO:2137

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02443

SEQUENCE DESCRIPTION:

GATCCGAGAG GGCATGGCCG CCCTGCAGTC TGACCCCTGG CAGCAAGAGC TCTACCGCAA 60
 CTTCAAAAGC ATCTCCAAGG CTTGGTGA GCGGGTGGT GTGGTCACCA GCAACCCACT 120
 TGGCTTCTGA ATACTCCCGG CCAGGGCCTG TCCCAGTTAT GTGCCTTCCC TCAAGCCAAA 180
 GCCGAAGCCC CTTTCCTTAA GGCCCTGGTT TGTCCCGAAG GGCCCTAGTG TTCCAGCAC 240
 TGTGCCTGCT CTCAAGAGCA CTTACTGCCT CGNAAATAAT AAAAATTCT AGCCAGGTCA 300
 AA 302

SEQ ID NO:2138

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02444

SEQUENCE DESCRIPTION:

GATCATCCAG AAGGAGCCCG TTGAAGTGGC CCCAAGCCAG CTCTCTGCAT TTCGTACTCT 60
 CCTGTTTTCT GCCTTGGTG AAGAGGAGAA GATGATGGTG AACAACATC GCCCACTTCA 120
 ACCCTTGATG AACCGGAAGG TCTGGGCGTC CTTCCAGGCC ACTAATGAGG GCACAAGGTC 180
 CTAGAGACAT TAGGTCCACA TGAATAGCAG AACTGACTTT GAAGGAAGGA AGCGTTGTTT 240
 CCCAAGTTTC ACAATGTGAT TGTACATGAC TTCTGAAATT AAAAAGAGAG CATGAAA 297

SEQ ID NO:2139

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02445

SEQUENCE DESCRIPTION:

GATCTATGCC AGCAAAACAT CATTTTGAGA CAAACATTTT TGTGGCAGAT GTTTTCTCTA 60
 AAAAGTACTA TATCATCCAA GAAATATTG AGTAAATCC CTTGTTCTTT TGGGTGACAT 120
 TAAC TGACAT TTGCTTTTTT TCAAGACCTA ATAGAAAATA AGAAAGCCCA TAATGTATTT 180
 AGAAACAGGA ATCCTCAGAG CAATTCTCTG TATTCTCATA TAATTCAAT GTAAACAGA 240
 AAACATATTG ATGTGTTGGT GATAGGCTTG AATTATTAAA AACTTCAAAA ACAA 295

SEQ ID NO:2140

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02446

SEQUENCE DESCRIPTION:

GATCGAGGCT GCAGGATATG CTCAGACTCT AGAGGCGTGG ACCAAGGGGC ATGGAGCTTC 60
 ACTCCTTGCT GGCCAGGGAG TTGGGGACTC AGAGGGACCA CTTGGGGCCA GCCAGACTGG 120
 CCTCAATGGC GGACTCAGTC ACATTGACTG ACGGGGACCA GGGCTGTTT GGGTCGAGAG 180
 CGCCCTCATG GTGCTGGTNC TGTGTGTGT AGGTCCCCTG GGGACACAAG CAGGCGCCAA 240
 TGGTATCTGG GCGGANTCAC AGAGTTCTTG GAATAAAAGC AACCTCAGAN CAAA 294

SEQ ID NO:2141

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02447

SEQUENCE DESCRIPTION:

GATCTGGTTG GTGGATGAAC AAGTGTACAG CTGGACATCT CAATGGNGTT TATTACCAAG 60
 GTGGCACTTA CTCANANGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
 CTTGGANAAC CCGGTGGTAT TCCATGAAGA ANCCACTATG AAGATAATCC CATCAACAGA 180
 CTCACAATTG GAGATGACAG CAACACCACC TGGGGGGAGC ANACAGGTGG AGACGTAAA 240
 NGCCGTTTAN TGNGTTTTCT NTTTAAAGNC TTTATCTGAC CNGGGGTANN GN 292

SEQ ID NO:2142

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02448

SEQUENCE DESCRIPTION:

GATCGGAAAA AAATTCTTGA ACGCAAAGCC AAGTCTCGAC AAGTTGGAAG AGAGAAAGGC 60
 AAATATAAAG AAGAACTTAT TGAGAAAATG CAGGAATAAA TAGAACCTGT TGTGCAACCA 120
 CGGTTTAACC GGAGATTTTG AGGCTAGGGT GTGTTTCTTT CGAACTTTTC GGAATGTCTG 180
 GAACATTTCA TTTCTGTTT TGTTACCTGT GCCTCTGTAA ATCTACTTTT GCAATTTTAA 240
 GTAATAATTT TATGAATAAN AATGGGAAAT GCTTCCTAAA 280

SEQ ID NO:2143

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02449

SEQUENCE DESCRIPTION:

```
GATCCCATAA CAGGCTACCC CTTGGCCTCA TGCTGGAGTT GTGTGTGTCT GTCTTCATCC 60
CAGGCTGAGC TCCTTGAGGT GAGGATGTTG TGCTGTTTGC CTCCCTCACA GTGCCTTGGT 120
CTTAGTGGAT GCCCAGTTGT CTTGTGAATG ACTTTTAAGA AGTGTACTTA AGAGAAAAAT 180
CCTACCNAT NNNNGTAAT TACAAGTCAT GTTTTGTNG CTAAAGGTG ATAAATCAGT 240
GTATATNATN NGNTAATGTC CATTAAAGCC AGTTTTTAAA 280
```

SEQ ID NO:2144

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02450

SEQUENCE DESCRIPTION:

```
GATCCTAGAG CCTGACGTTT AGTGAACCCA TGTTCCTGGG TGGGTGAAAG GGGCCCAACC 60
CTGCCCACTT CAGCCAGCC CGCCCAAGGG GACTTGTGCC AGCAGAACAT GTNGGAGGAA 120
GAAGCCCCGT TTCCAGGGCA TCCGCAGCCC AGGGTAGGGA GAAATATTCT CTCCACTTTG 180
GGGGAGAGTT CTGCTCTCG ACCTAGTGGT TTCTACTCTC ACCGACTTAT TCTGATTTC 240
GAAATAAAAT GAAATGTCTT ATTTTGGGA AAGTTAAA 278
```

SEQ ID NO:2145

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02452

SEQUENCE DESCRIPTION:

```
GATCCCACTG GGGCCTNTGG GAAGNGACA GACTTATNAC TAGATGATTC GCTGGTGTCC 60
ATCTTTGGGA ATCGACGTCT CAAAAGGTTA TCCATGGTGG TACAGGATGG CATAGTGAAG 120
GCCCTGAATG TGAACACAGA TGGCACAGGC CTCACCTGCA GCCTGGCACC CAATATCATC 180
TCACAGNTCT GAGGCCCTGG GCCAGATTAC TTCCTCCACC NNTCCNTATC TNACCTGCCC 240
AGCCCTGTGC TGGGGCCCTG CAATTGGAAT GTTGGCCAGA TTTCTGCAAT AAACACTTGT 300
GGTTTGGGG TCAAAA 315
```

SEQ ID NO:2146

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02453

SEQUENCE DESCRIPTION:

```
GATCCCAGGA CCATTTGGCT AGTGTGCCTA GGTGACCACA TGATTGCTGT TTTACCAGGA 60
ATGCAGCATC CCATTGACAA AACAAGTGCT CTGAGAAGGT TTTAAATACT ACAGNGAATA 120
TGGGANCACA GNCCTTGAAA TTTAGCTGAG TTGTAACAGC TGAAACTCCA AGAGGTGTCT 180
```

TCCTTGTTN GAGGTGNACT AGTGTGCTT CCAGAGGGCA GCTTGAAACC CGTAAAGCCT 240
 GTTTTGGGGA ATCCTTTTTT GNCTTGCTTT GNTTN 275

SEQ ID NO:2147

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02454

SEQUENCE DESCRIPTION:

GATCATCAAT GATTATTGG CACGTTCTAT TGGGATGGTC GAAGTTAATA CAGTAGACAA 60
 ATACCAAGAT AAGGGACAAA AGTATTGTCC TAGTATCTTT TGTTAGAAGT AATAAGGATG 120
 GAACTGTTGG TGAACCTTG AAAGATTGGC GACGTCTTAA TGTTGCTATA ACCAGAGCCA 180
 AACATAAACT GATTCTTCTG GGGTGTGTGC CCTCACTAAA TTGCTATCCT CTTTGGAGA 240
 AGCTGCTTAA TCATTAAAC TCAGAAAAAT TAAA 274

SEQ ID NO:2148

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02455

SEQUENCE DESCRIPTION:

GATCGCAGAG AAGGCAGCTG ACATTATCAA GGGGCAGCCT GCACTCTGGG ACAAAGATGT 60
 CCCTGTCTAC AAGCCCAGGA CGCTGGCCAC CCAGCGCTAA GACAGTTGCT GCTGGAGGAT 120
 GACCAGGGAA GCCCCCTGAT AAGCCAAGAG GGCCAGCACA GCCCTTGCTC CCAGGCTCCT 180
 GCCTGAAACT ATCTAGCACA CTAGGACCCA GGTGGTACCC TACTCAGTGG CTGAGAATTG 240
 GATAAAGTCT TGGGAAATGA GACAAA 266

SEQ ID NO:2149

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02456

SEQUENCE DESCRIPTION:

GATCTTTAAC AAATGTTTAA AGCAATTTTA AAAAGGCAGG ATGTTATTGA CATTATACAC 60
 TGAAGTCTTA ACATTTTAAC ATTTATAGTG CTTATTTGCA AAATTGTATA ATTAGGAATT 120
 ATTCAGAGA CAATGTTTTC TTTTTCAGGT GAGTAGTTGC CGCGTAATAT CATTGGAGTA 180
 CATTCTTTAT ACTGTTTGTG AAATTAATAC TAGCATATTA AGTGTAACAA TAGATTTAGA 240
 AAACAATAAA AAATTGCATG CTAAA 265

SEQ ID NO:2150

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02457

SEQUENCE DESCRIPTION:

GATCCTAGTG TTTAATTAC CTGTGTGCAG CTATTTTAAA TAGCATTTTA CTTGAATAAT 60
 ATGTATGTTG TCATTGTTTC ATGCTATACT TTGTGGGATA AAACCTGGGA ATGAGTGTGG 120
 TAAGAAATTT ATAAAGTTTT GCTTTTAAAA CGTGGACATA ACTCATTTTT CTAGTTTTTG 180
 ACAATTGTGT GTTTTAGTGT CTAGTCTGCA GAGAGCTGTG TGATTAATAA ACGTGGAATT 240
 AACAGAATTT CCTCTCCCTG TAAA 264

SEQ ID NO:2151

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02458

SEQUENCE DESCRIPTION:

GATCCTGGGC TCATAGGCAG TCCCTTTCAC TTCCTTGTCT TGCTCCCTGC TATGCTGGAG 60
 ATGAATGTGA CTAAGAGGC CATCTTGCTG GCTTAATGTG TGGCTGGAGA GACCAGCCTG 120
 GAGACAATGT GGCAAAATGG GCGCTTCAT CCAGTCTGTC TAAGCCCTGT CGACTTGGGG 180
 AGGTGATTTT TTTCTGGTT CTATATGTNA AGCAAAATAA ATGTTTTAAA ATTAAGCA 240
 NNAAAGCAGA ATGTGAGTN 259

SEQ ID NO:2152

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02459

SEQUENCE DESCRIPTION:

GATCAAGCT GGACTGGAAA TTGTATCGTG TAATTATTTT TGTGTTCTTA ATGTTATTTG 60
 GTACTCAAGT TGTAATAAC GTCTACTACT GTTTATNCCA GTGTCTACTA CCTCAGGTGT 120
 CCTATAGATT TTCCTTCTAC CAAAGTTCAC TTCACANTG AAATTATATT TGCTGTGTGA 180
 CTATGATTCC TAAGATTTC AGGGCTTAAG GGCTAACTTC TATTAGCACC TTAGTGTGA 240
 AGCAAAATGTT ACAA 255

SEQ ID NO:2153

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02461

SEQUENCE DESCRIPTION:

GATCTGTGCA GCAAAGCACC ATGGTACATG TNNTACCTAT GTAACAAACC TGCACATCCT 60
 GCACATGTAC CCTGGAACCT AATAAAAGTT GGAAATTTTT AAAAGAATG AATAAGACCT 120
 GGTATTTGAT AGCACAACAG GGAGACTATA GTCAACAGCA ATTTAATTGT ATATTTAAT 180
 ATGACTAAAA GAGTATAATG GNTTGTGTTGT AACACAANTA AATGCTTGAG GGGATGGNCA 240
 CCCCNA 248

SEQ ID NO:2154

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02462

SEQUENCE DESCRIPTION:

GATCTTAAGC TTTGATAAGA GCTGTCCTGT GGCTGAGTAT GGTGTGTATG TNAAGGTGCT 60
TCCATCCAGG CTGGGTTTCAG AAGCCATAGC TGNGACTAAT GCAAGCTGGC CGAAGCCTTG 120
CTGAAAGAAG CTTTAGCTGG AGAGGCAAAG TGGCGGGAGT GGCAGGAGTG GATNNGATAA 180
GATGTGGTTT AAGTNATGGG TNCAGCCTGA TTCTGAGCAA TAATAAAGAN TTTCTTTTGC 240
CCAAA 245

SEQ ID NO:2155

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02463

SEQUENCE DESCRIPTION:

GATCCAGGAA GCTCCCAAAC CAGAGTGTGA GAAGGCACTT CTTGCCTTTC AGGAGAGTAA 60
GAACCTCTGC GAANCATGGA GAACTTTATG CAACAATTAA AGGAAAGTGG CATGACAATG 120
GAGGAGCTAA AATATTCTCT GGAGCTGAAG AAAGCTGAGT TGAAGGCAA ATTGTTGTAA 180
CACTACAGCT GAGCAGATGT AATAGAAATA AACCTATGAA TAAATTTNCT TCTTGTTTCT 240
GAAA 244

SEQ ID NO:2156

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02464

SEQUENCE DESCRIPTION:

GATCCTATAT CTTGGTNAAT ATGCTCCCAG ATACTTTAAA CATGGCAACC TTTTGGCCTA 60
AGAGAATGTT TGTTTCATGGA AAAAAGCTTT TGAGATGAGA GGGTGTCTTA CTTTCTTGTG 120
GCAATTGATT TTCTGTTTAA ACACCCTTTG GGTAATAATCT TGCAAAGAGC TTTTATAATT 180
NGTTTTACTG AATTGTATGG AGATTGTATA CCAAGTAAAG CTCTTTTAAA TTACAAA 237

SEQ ID NO:2157

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02465

SEQUENCE DESCRIPTION:

GATCCACGCT GGGCCGAGGA TGGGACGTTT TTCTTCTTGG GCCCGGTCCA CAGGTCCANT 60
GACACCCTCC CTCCAGGGTC CTCTCTTCCA CAGTGGCGGG CCCACTCAGC CCCGAGACCA 120
CCCAACCTCA CCCTCCTGAC CCCCATGTAA ATATTGTTCT GCTGTCTGGG ACTCCTGTCT 180
AGGTGCCCTT GATGATGGGA TGCNCTTTAA ATAATAAAGA TGGTTTTGAT TAAA 234

SEQ ID NO:2158

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02466

SEQUENCE DESCRIPTION:

GATCCCTAAG CTGTAGAACA TTTTAACGTT GATGCCACAA CGCAGATTGA TGCCTTGTAG 60
ATGGAGCTTG CAGATGGAGC CCCGTGACCT CTCACCTACC CACCTGTTTG CCTGCCTTCT 120
TGTGCGTTTC TCGGAGAAGT TCTTAGCCTG ATGAAATAAC TTGGGGCGTT GAAGAGCTGT 180
TTAATTTTAA ATGCCTTAGA CTGGGGATAT ATTAGAGGAA GCAGATTGTC AAA 233

SEQ ID NO:2159

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02467

SEQUENCE DESCRIPTION:

GATCTGTGCA CACTTTCTAA ACAGCTTGTN ATGCAAGTNT GAGCCTATTG TGTTACTTGA 60
CCTTATTTTG GAAGTTTGA ATTGGCCTAG GAGGAAACCC AGAAATGAAC CAGGGGTATG 120
TNATCACITT TTNATATCA AGTCCTCACC CTCCTNCCAC ATAATGCTCT ATCCGGCTAA 180
GGTTGGAAC CTGAAGTTGG AGAAGGTGGA ATAAAGTTAC ACCTGGAAA 229

SEQ ID NO:2160

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02468

SEQUENCE DESCRIPTION:

GATCCCTGCG AATTACGAAA ACTACTACAT CCATGATTGC CCCAACCCCC TTGGGGTGGG 60
GCAGAAGGTG AAGCATCCCA ACTGACTAGA GACTCAGGCC CTGCAGGNCC TTATAGAACC 120
TGTGGCCATC CCTGAGCACC CTGCCACCAG GTGACCTCGG CCATACTCAC TGCCCCCCTT 180
GGGCACCCAC TCACCN TAGA ATAAACTTAA CAGTGTCCTG TGGTAAA 227

SEQ ID NO:2161

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02469

SEQUENCE DESCRIPTION:

GATCTTACGA TGCCCTCTGT ACTGACCTGA AGGAGACCTA AGAGTCCTTT CCCTTTTGA 60
GTTTGAATCA TAGCCTTGAT GTGGTCTCTT GTTTTATGTC CTTGTTCTTA ATGTAAAAGT 120
GCTTAAGTGC TTCTTGTTG TATTGGGTAG CATTGGGATA AGATTTTAAC TGGGTATTCT 180
TGAATTGCTT TTACAATAAA CCAATTTTAT AATCTTTAAA TTAAA 226

SEQ ID NO:2162

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02471

SEQUENCE DESCRIPTION:

GATCTGCCTT GCTCACTATT TGCCTATTGG CATATATGAT TACTTTGCTA AAAGACATTT 60
TGGCCAAGAC AAGCCCATNT CCAGAGCTCT AAGAATGCCT AACTACAAGA AAAAGGCCAC 120
CTAGGCAATG GAAGCCCTCA AAGAAGTCGG AATGTCATAG TCTTGAAATG AAAGGGAAAC 180
TGGGAAACTG GGTTTCTCAT TAAAGTTGTT TCCCACTCTN TAAA 224

SEQ ID NO:2163

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02472

SEQUENCE DESCRIPTION:

GATCTAATT GATAAACAAC ATGGCTTGTG TGAAACTGA GCAGGTGTTT GTTTACCCAT 60
AGTGTCTGT GTAGTTATTG CTTANTCTGC AGAAAATAAT GACTTAGATG AGATGTCTGA 120
CTTGCTTTCA CTTATTAAAC ATGTTACCA TGGGATGATG TCTGTAAACAT CAGATATTGT 180
TCAACTAGAC TAGGATTAA TAAAAATTGT GAAAGCTTAA A 221

SEQ ID NO:2164

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02473

SEQUENCE DESCRIPTION:

GATCTTAATT TACAGTTCCA TGGGATTAAA ACAAGTTTGC ATTTATGTAA TTTGCATTAC 60
TTTAAAAATT ACAACAACAT AATCTCTGAA ACTTACTTCA ATCAATTCAC ATCCCTACAA 120
CTGTTAAGAT TTATTTTGTG ATTAGNATCT TATAGTGGGT ATTCTTTTNA GTGCTGATAT 180
TTCTATTCAT TAAATCCTG TGNACACAAA 210

SEQ ID NO:2165

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02474

SEQUENCE DESCRIPTION:

GATCCTGCAT TAAATTTTAA TTTGTGAAAA TTTGAAAATT ATGAGCTATA ACTTATAAAG 60
TTTGCCTTCT TATGNCTAAA ATCTTTTAAA GGATTATTG CATTTATGTA AAAGTGGAAA 120
TGAAGTTATA TATGAGTGCA AAGAAATGA CTTCTGCTCA AATATGTGTT GATACCCTAC 180
AGTAAATTGA ATTAAATTTT TATCCCAAA 209

SEQ ID NO:2166

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02475

SEQUENCE DESCRIPTION:

GATCAGTCAA TTTCCGTCG TCCGTAACCA GCGGGCCCT GGTCAAGTNC TGGCTCTGCT 60
GTCCTTGCCT TCCATTTCCC CTCTGCACCC AGAACAGTGG TGGCAACATT CATTGCCAAG 120
GGCCCAAAGA AAGAGCTACC TGGACCTTTT GTTTTCTGTT TGACAACATG TTTAATAAAT 180
AAAAATGTCT TGATATCAGT AAA 203

SEQ ID NO:2167

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02476

SEQUENCE DESCRIPTION:

GATCTGGACT TCGAAACTTT CCTCATGGAT TCTGAATAAA AGAAACACTC TACACCTCTT 60
AAATCAAGGT CATGTAGATA ATGACTTTGT TATAAATGCT ACAGCTGTGA GAGCTTGTTT 120
CTGATTTTCAT TGTTGCTTC TGTAATTCTG AAAAACTTAA AACTGGTAGA ACTTGGAATA 180
AATAATTNGT TTTAATTAAA 200

SEQ ID NO:2168

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02477

SEQUENCE DESCRIPTION:

GATCTTAAGT GTCTCCTTGC TCTGGTAAAA GATAGATTTG TAGCTCACTT GATGATGGTG 60
CTGGTGAATT GCTCTGCTCT GTCTGAGATT TTTAAAAATC AGCTTAATGA GAGTAATCTG 120
CAGACAATTG ATAATAACAT TTTGAAAATT GGAAAGATGG TATACTGTTT TTAGAGGAAT 180
AAACGTATTT GTGGTTTAAA 200

SEQ ID NO:2169

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02478

SEQUENCE DESCRIPTION:

GATCCAAATC CCAGCTCTAC TGTCTCGTCC GAATTAGCCT TGGGAAAATC ATTTATATGC 60
TAAATAATTT ACCTTTTAT CTAGGAGATG AAAAGAGGAT AATGTTTCCT TCCATAAAGA 120
AAGTTCTTGT AAGAATCAAA AGAAATGGTG AGCTTTAAGT GGTGTGTAAC CCATAAAACA 180
CATCATAAAA GTTCAAA 197

SEQ ID NO:2170

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02479

SEQUENCE DESCRIPTION:

GATCCATGNC ATCTCTCTCT TGCCTGAGGG GAAAGAGAGA TGGGCCAGGC AGAGAACAGA 60
 ACTGGAGGCA GTCCATCTAG GGAANNNAC TGTGAGGCCA TACTTGTGAA ACGTCTGGAC 120
 TGCTATTCTA GAGCTTTTAT TTGNGTGTGT TCGTTGCACA NCTTGTTTAA AATGTTTAAT 180
 AAAAGCTTTA TAAACTTTAA A 201

SEQ ID NO:2171

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02480

SEQUENCE DESCRIPTION:

GATCCCCCAA GTACAGGCGC TAATTNTGT GATAATTGT AATNGTGA CTGTACTCCC 60
 GGCTGGCAGC GTAGTGGGGC TGCCAGGCCC CAGCTTTGTT CCCTGGTCCC CCTGAAGCCT 120
 GCAAACGTTG TCATTGGCAG GGAAGGGTGG GGGGCAGCTG CGGTGGGGNG CTATAAAANT 180
 GACAATTAAC CGNGACANTN GTNTTTTATT TCCTNAAA 218

SEQ ID NO:2172

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02481

SEQUENCE DESCRIPTION:

GATCCTTGCA GGGAGCTTGG AACCTTAGTG CACCTACTTC AGTTCAGAAC ACTTAGCACC 60
 CCACTGACTC CACTGACAAT TGACTAAAAG ATGCAGGTGC TCGTATCTCG ACATTCATT 120
 CCACCCCCNT CTTATTTAAA TAGCTACCAA AGTACTTCTT TTTAATAAA AAAATAAAGA 180
 TTTTATTAG GTAAA 195

SEQ ID NO:2173

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02482

SEQUENCE DESCRIPTION:

GATCCGGCAA CATCAACCCG AGTCATTGCT TCTGTGGAGG GACAAGTGGA CTCAGGGCAG 60
 CGCAGGCTGA CCACAGCACA GCCAACACGC ACCTGCCTCA GGACTGCGAC GAAACCGGTG 120
 GGGCTGGTTC TGTAAATTGTG TGTGATGTGA AGCCAATTCA GACAGGCAAA TAAAAGTGAC 180
 CTTTACACT GAAA 194

SEQ ID NO:2174

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02483

SEQUENCE DESCRIPTION:

GATCAAATGG AAAGGAGAGG AAAGAACTCA GTGCTGCCTA TTAGTAGTTA ATTCTGTCAC 60
 TCACCACTAC ATCACTTGAG ACAAATCTAT GCCACTCAGA ATCTCCTTCT TTCCTGGACT 120
 TAACTCTAAT TCTAGAGTCT CTGTTACTGC TTGGGCTATA CCTGGGCATA CTAATAAAGT 180
 ATGGTATTGA AA 192

SEQ ID NO:2175

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02484

SEQUENCE DESCRIPTION:

GATCAGAACT GTTACCAAAA AACAACTGTC AGTTTTATTG AGATGGGAAA AATGTAAACT 60
 CGANNNTTAT TACTTAAGAC TTTATGGGAG AGATTAGACA CTGGAGGTTT TTAACAGAAC 120
 GTGTATTTAT TAATGTTCAA AACACTGGAA TTACAAATGA GAAGAGTCTA CAATAAATTA 180
 AGATTTTTGA AA 192

SEQ ID NO:2176

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02486

SEQUENCE DESCRIPTION:

GATCGTCTTG GAAGGGAGTG GTTTTCAGAG ACATTTTCTAGA AAGTGAAGGA GAAACTCAAG 60
 ATTGACTCAT GAGGACCTGA AGGGTGACAT CCCAGGAGGG GCCTCTGAAA TTTCCACAC 120
 CCCAGCGCCT GTNCTGAGGA CTCCCTCCAT GTGGCCCCAG GTGCCACCAA TAAAAATCCT 180
 ACAGAAA 187

SEQ ID NO:2177

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02487

SEQUENCE DESCRIPTION:

GATCATTGAA ATGCTGAAAA TTTTAACAGT CTTCTTAAAA GTATTGAGGG GGCAAAAATT 60
 ACCAATTATG GTATACAAAA ATAAGCCTAT AAATGTNTT CACATTGCTA ACTTGAGTTT 120
 CAGTTGATTC AGTTTGTAAAT AACTAGTAAT GAGCTTCTGT TTACAATAAA AATNCTGTAA 180
 ATTGAAA 187

SEQ ID NO:2178

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02488

SEQUENCE DESCRIPTION:

GATCAGTTGC TTATAGATAA TGTTCATGA CCTCAAGACA TATATTTTTG AGAAATTATC 60

ATTTTAAAA ATTTGGTCTA TACTGATTGT TTTCCTGAT TCCAATATTA TTACTTATAA 120
CACTGACCTC TGGAAAATAT TTTGTNCACA AGAAATAATA AAGTATAATG ATTTGTNGCA 180
NNNAAA 186

SEQ ID NO:2179

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02489

SEQUENCE DESCRIPTION:

GATCCACAAG GCCTGAGGAG CAGTGTGGGG GGACAGACAG GAGGTGGATT TGGAGACCGA 60
AGACTGGGAT GCCTGTCTTG AGTAGACTTG GACCCAAAAA ATCATCTCAC CTTGAGCCCA 120
CCCCACCNC NTTGTCTAAT CTGTAGAAGC TAATAAATAA TCATCCNTNC TTGCCTAAA 179

SEQ ID NO:2180

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02490

SEQUENCE DESCRIPTION:

GATCCAATGG AGCCTGGNGA GGTGTGCCCA GAAAGCTTGT CTGTAGCGGG TTTNTGAGA 60
GTNAACACTT TCCACTTTTT GACACCTTAT CCTGATGTAT GGTTCAGGA TTTGGATTTT 120
AATTTTCAA ATGTAGCTTG AAATTTCAAT AAACCTTGCT CTGTTTTTCT AAAAATAAA 179

SEQ ID NO:2181

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02491

SEQUENCE DESCRIPTION:

GATCTGTCCA CTCCTGGTCA TTGGTGGATG TTAAACCCAT ATTCCTTTCA ACTGCTGCCT 60
GCTAGGGAAA ACTGCTCCTC ATTATCATCA CTATTATTGC TCACCACTGT ATCCCTCTA 120
CTGGGCAAGT GCTTGTAAG TTCTAGTTGT TCAATAAATT TGTTAATAAT GCTGAAA 177

SEQ ID NO:2182

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02493

SEQUENCE DESCRIPTION:

GATCAAAAAA CCACAGGGCT TTTGGGCACT GCCTCCTTGG GAAGTTAGTG GCCACAGAAG 60
AGAGATGAAA CCTGTAAGAA GTCTGGAGTC TTTTGGAAT TCAGCCATTT CCCCAGGTTG 120
TTACTTTCTT AGTATGTACA GTCTTCTCAG GATGAGCAGT AAAACCTTTG AACAAA 176

SEQ ID NO:2183

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02494

SEQUENCE DESCRIPTION:

GATCCTAAAC TCTCTAGCTT AAGTGTAAT GAAGTACAGT AGTTTCCCTA CTGAACCCTA 60
CCTCTTGTGT CCCTGGAACC TTCTAGAACA CCTGCCTTCT ACCCTCTGGT TGGGAGATGC 120
AGCCACCACA TCCCTTCATA TCATACTGTT TTGAATAAAT TTTCAAATCC TTAA 175

SEQ ID NO:2184

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02495

SEQUENCE DESCRIPTION:

GATCCGGAGG GCCCAGGAGA ACCGGAGCGT GCTTCAGGGT GCCCGCAGAA CAGGAGCTGC 60
TCAGCCAAGA ACTGTGGCGG CGGCTGCTGC CAGGATGCCG AAGATACCCC ACTAGCACCC 120
CTNAGGGGGT CATGTGGTCA ATAAAAGTCC TTAGCTGCTG CCTAAA 166

SEQ ID NO:2185

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02496

SEQUENCE DESCRIPTION:

GATCAAAATC AAGAAATCCG GGCATCACAG AGAAGTTGGG TTAGGACAG CAGGTGCTGT 60
TCCGAGACTC AGTCCTAAAG GGTTTTTTTT CCCACTAAGC AAGGGGCCCT GACCTCGGGA 120
TGAGATAACA AATTGTAATA AAGTAACTTC TCTTTTCTTC TAAA 164

SEQ ID NO:2186

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02497

SEQUENCE DESCRIPTION:

GATCAGCCCC TTAATNAG TTCTAGAGCA GGTCTTCTGT TCCAGAAGGG GAGAAGCATA 60
GAGGGCCTGT GAGCTCACGT GTGTTCTTTG TCATAGGGGT GAAAACTAA CTTCAAGTGT 120
CCCTGTTTG AAATAAATT AGCAGAGTCA CTTTCTATCT TAAA 164

SEQ ID NO:2187

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02498

SEQUENCE DESCRIPTION:

GATCTAATGG TTTTATAAAT NAAAGTTCCC CTGGACAAGT TCTCTTGCCT GCCACCATGT 60
 AAGATGTACC TTGCTACTC ATTCACCTTC TGTCATGATG GTGAGGCCTT CCCAGCAATG 120
 TGGAACGTG AGTCCATTAA ACCTCTTTCC TTTATAAATT AAA 163

SEQ ID NO:2188

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02499

SEQUENCE DESCRIPTION:

GATCCTAACC AGGTAACCTG GTCCTNTGAA TTGAAGCTTA TCATATACCC AAAGCCTTGA 60
 CTAGAAATAC CTAATAGAA TACCATGGTC ATTGGAAAAA ATAGATAGTN TTNTAAAGTA 120
 TTATTTNAAT AAATCCTAAA GTNTGTCTNT CTTCTCCTCA AA 162

SEQ ID NO:2189

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02500

SEQUENCE DESCRIPTION:

GATCCTGGCC ATGAATGAAA AGGATAAGAA GAAAGAGAAG AAATGAAGTG ACCATCCAGC 60
 CTTTCCAAT NAGACTTCCT CTCCTTCCAC CCCTCATTTT CTTTTGCAC ACATTACAGG 120
 TGGTGTGTT TGTGATAATG AAAAGCATCA GAAA 154

SEQ ID NO:2190

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02501

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCNACCCCC ACCCCAACAC ACTCGGTGTC CCANTCATAC TAGGGCCTGT 60
 GTAAATCCCA GCCTGGCCAT ACCCTCAACC TCAGTGGGCT GGAAATNACA GTGGGCCCTA 120
 TAGCAGTGGC AGAATAAACT CAGNTGTGTT CAAA 154

SEQ ID NO:2191

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02502

SEQUENCE DESCRIPTION:

GATCGCCCCA CTGCAATCCA GCCTGGGAGA CATAATTCAA ATCTATTTTG GTCTTATATC 60
 TTCTTATGTT TGTGTTATTT CATGTGTGCC AGTTTCTCTT TTTTCACAA CAATTTATCA 120
 ATTTGTGGCA ATAAAAATNA TTTACCTTTT AAA 153

SEQ ID NO:2192

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02503

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTTACTGC TGCTTGTGGC TATCGTGGTT GTTGCACTCT GGCCGACCAC 60
CAGCAGTNAC ACCTGCCAAT NACAGATGCA AGCCCAACAC CCTTTTGGTA CGCAAAACCT 120
GCTCTCAATA AATCCCCCA AAGCTCTGAA A 151

SEQ ID NO:2193

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02504

SEQUENCE DESCRIPTION:

GATCCCAGGA ACCTTCCTNC TCCAGGGCAG CACAGGACTC AGCCATGTNT GGACCGGCCC 60
TGCTGAGGCT ACAGTCACTC TGGAACTCT GCGCTTCATC AGGNGGCAGG ACTGTGGCGG 120
GAGGGGTCTT TGAAGATGGG TGTGGGGAGC AGTGGGTCAG GAAGTGGGAG CCAGAGGTTT 180
GACTCACTTT GCTTTATTTT TCAGGCTACA ATACAGGTCA GAGACAATGG CTTATAAAGG 240
TTTAGTGTGG TCTCAGGATG TGACAGGCAG TCCAGCCTGA CCTTTCTGCA CACTCCAGAC 300
AAACTTCCCA GACAAGCTCC TTTGTGCCTC TACGTGGAGA GGGTGTGGGA AAGTTATCAC 360
ATTAAAAGGT N 371

SEQ ID NO:2194

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02505

SEQUENCE DESCRIPTION:

GATCAAGAAA GAGATGGAGG AGGAGGACTG AGCCCAGAAT TCACTAGGTT CGAATCCAGA 60
NAGCAGTGTG GAAAAAAAAA ACCAAAAANC AACTGNCCAG TTGTTGATAA CCACTAAGAG 120
TCTCTATTAA AATTACTGAT GCAGAAA 147

SEQ ID NO:2195

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02506

SEQUENCE DESCRIPTION:

GATCTGTGTC ATTNCCCATG AGGGGCCGGG GCAGGTGGCT GGGTGGGGGC ACAGGCTGGA 60
GTATTCTNAG TTCTACTGGT TCTACACTGT GAGGTGGCAA TGGGATTTCG TCAGATGCCA 120
CCCAATAAAA TGCCTGTAAC TTAAA 145

SEQ ID NO:2196

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02507

SEQUENCE DESCRIPTION:

GATCGCTACT CTTAAGAATA TACATGTATG TATTCATAGG AACATTTTT CTCAATATTT 60
GTATGATTG CTTACTGTTA TTGTGCTGAG TGAGCTCCTG TGTGCTTCAG AAAAAATAA 120
ATGAGACTTT GTGTTTACGT TAAA 144

SEQ ID NO:2197

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02508

SEQUENCE DESCRIPTION:

GATCAGCTGG AAGCTCACTA GTCATCTCCT GCCCAATCCC CAGAAACCCT GATTCAGGTC 60
TGCAGGCTCC TGCGGGCTCA CCACGGCTGC TGGCTCCGGT ACCATGTAAN NCCTAGGAAG 120
GTAAAGGNGC AGGCAACCTC AAA 143

SEQ ID NO:2198

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02509

SEQUENCE DESCRIPTION:

GATCCAGTGA GATAGAATAC ATGTAAGTNT GGTTTTGTA TTTAAAAAGT GCTATACTAA 60
GGGAAAGAAT TGAGGAATTA ACTGCATACG TTTGGTGTT GCTTTTCAA TGTTTGAAAA 120
TAAAAAAAT GTTANGANAA A 141

SEQ ID NO:2199

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02510

SEQUENCE DESCRIPTION:

GATCCCTTGT GGCTATGCAG ATACCTACCT CACAGAGTTG TTGTAGAAGA CTGGTGGTTT 60
GGTTCAAACC TTGTGATTAA AGAGTTTGC AAGCATTTTA TTCTTTTGA TAAAGCAAC 120
ATATCNAAAA CATTAA 137

SEQ ID NO:2200

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02511

SEQUENCE DESCRIPTION:

GATCCCTGTT TAACCCAAA TTACAGTCGG ACTTGGATAC ATCATTGTGA ACATTGTAGG 60

AAAGAAAAA GTCTTGGTTN TGAAAAACGA TTTGCATTG GGTAAAAATA AGTGACCATG 120
CTTTTGTCT GTAAA 135

SEQ ID NO:2201

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02512

SEQUENCE DESCRIPTION:

GATCCAGCTC AAGTGCCATC CTGCCAGTGG CCCCAGACT GTGGGTTGG GACGCCTGGC 60
CTCTGTGTCC TAGAAGGGAC CCTCCTGTGG TCTTTGTCTT GATTTNCTT AATAAACGGT 120
GCTATCCCCG CCAA 135

SEQ ID NO:2202

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02513

SEQUENCE DESCRIPTION:

GATCACTACT GCTCTTGAG TTCCTTCTCC TAAAGCTAAG GCCAGCCTCC ATCACAAATG 60
CCCATAAAT CTGGCTCGTC TTTGATGAAC AATAAATATT TNTGAACAA ATAAATAACT 120
GCCCTGCATT AAA 133

SEQ ID NO:2203

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02514

SEQUENCE DESCRIPTION:

GATCCTCCCG CTGGCTTCCA GACAGACCTG GGATTTTGGC AGTCATGCCG GGTGATGGTG 60
TTCCTGCGGA GACCCTCAGT TGTCTATT CTTCTAGCT TCCCTGCAAT AAAATCAAGC 120
TGCTTTTGTT GGAATAAA 138

SEQ ID NO:2204

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02515

SEQUENCE DESCRIPTION:

GATCATTTCA CCTGATGTTT TTAAAGCATC CTAAGTACAG TAGAGTAGAA AACTNATTC 60
TTTGTTAATT GTACACTGAA TAATGCCTTT AAAAAATCAA AATAAAATTA ACAAATAATG 120
GTGAATGAAA 130

SEQ ID NO:2205

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02516

SEQUENCE DESCRIPTION:

GATCTCCTAT GTTACCAATG TGTATCGTCT CCTTCTCCCT AAAGTGACT TAATCTTTGC 60
TTTCTTTGCA CAATGTCTTT GGTTGCAAGT CATAAGCCTG AGGCAAATAA AATTCCAGTA 120
ATTCGAAGA ATGTGGTGTT GGTGCTTTCC TAATAAGAA ATAATTTAGC TTGAAA 176

SEQ ID NO:2206

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02517

SEQUENCE DESCRIPTION:

GATCATGTGA TGAATTTGTA ACATTCACAC AACACCTCAC TTTTNAATCT ATAAAAGAAT 60
TGCACGTATG ANAAACCTAT ATTTNAATAC TGCTGAAACA GACATGAAAT AAAGAATTA 120
AAGAATGAAA 130

SEQ ID NO:2207

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02518

SEQUENCE DESCRIPTION:

GATCTAGCTT CTGGCTCTGT GTGTTTATTG ACCAGTGGTG TGCCTTGAGA AACCAGAACT 60
CTCTGAATTT CAGTTTGTG TCTNTNTAAA TGAAGAAGGT TGTAATAAAA AAAATCTCAA 120
GTTTCAA 128

SEQ ID NO:2208

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02519

SEQUENCE DESCRIPTION:

GATCCGTCAT GGNAACGAG AAGCACAGCA AGAACATCAC CCAGCGCGGC ATACGTCGCC 60
AAGACCTCGA GAAATGCCCC CGAAGAGAAG GCGTCTGTAG GCCCTGGTTA TTGGCTCTCT 120
TCACITTTGT NGTCTGTGGT TCTGCAATTT TCCAGATTAT TCAAAGTATC AGGATGGGCA 180
NNTGAAGTGA CTGACCTTAA NTGTTTCCAT TCTNCTNTGA ATTAACTTA ACTCATTCT 240
GATGTTTGAN CCCTGGTTNA ACAATTCAGT AAANATCTGC TAGAATNCTT NCTATCATNT 300
TCATGTGCAT TCAAGNTTCT CATNGCATCC ANGTTCTAGN CAACACAGN 349

SEQ ID NO:2209

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02520

SEQUENCE DESCRIPTION:

GATCACCAGG CAGCGACCTC CGCNCACCCC AGCAGTCGCG AGCCTCGGCC CAGCCANAGG 60
AAGCGNTGCC GNCGGACCTG ACTGACTTCC CAGTGGAAC TGCCTTCTTNG GCTGGGACAG 120
CCNTTTN 127

SEQ ID NO:2210

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02521

SEQUENCE DESCRIPTION:

GATCTGGGCC ACTTCCCTCC TTCCAGTCAT GAGTAATCAT CAAGGAGCAA GTTGGAGTGT 60
TTCAGGTGTA TATTTGTAG AACCCAAAAG ATTGGAGCCT TAACAATAAA CATCAGCACT 120
AAGAAA 126

SEQ ID NO:2211

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02522

SEQUENCE DESCRIPTION:

GATCTTTCAT AAAGCAGAAT GGTACGTATC GGATTGTTTT AATGTTATAT ATTGGATTGT 60
ATTGTTGTT ACAAAACCAA TATTCTATGG AGAATGAAAA AAATAAAGGA CTAAATTAAC 120
TGAAAA 126

SEQ ID NO:2212

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02523

SEQUENCE DESCRIPTION:

GATCTCGCAA AGTTATTCTT CCACCATGGC CAACAACGAA GGACTTTTCT CCCTGGTGCC 60
GAGGAAGCTG AGCAGACCCC TGTGATGCCT GTNACCTCAA TNAAAGCAAT TCCTTTGACC 120
TGTCAAA 127

SEQ ID NO:2213

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02524

SEQUENCE DESCRIPTION:

GATCAATGTA CTTTTATAA ACTTGCCATA GATATCTCAG ATTTGAAACC TCAAGACAGA 60
TTTATTATTC TTAAATGCTG TATGATAATG AAGAAAAATA AAAATTTATT TCTTGCAAAG 120
TTAAA 125

SEQ ID NO:2214

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02525

SEQUENCE DESCRIPTION:

GATCAGTTTG GAGAGTAGGG GGCCACTCAT ATTCTGGGCT CCTGGAACCA ATCCCGTGAA 60
AGAATTATTT TTGTGTTTCT AAAACTATGG TTCCAATAA AAGTGACTCT CAGCGAGCAA 120
A 121

SEQ ID NO:2215

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02526

SEQUENCE DESCRIPTION:

GATCCCCGCA TGGTGTGGG GGTGCTGGTG TGTCTGGTG CCTGGACTTG AGTCTCACCC 60
TACAGATGAG AGGTGGCTGA GGCACCAGGG CTAAGCAATT AAACCAGTTA AGTCTCCCAG 120
GAAA 124

SEQ ID NO:2216

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02527

SEQUENCE DESCRIPTION:

GATCAAAAAG GGGTCTGAGG TTGCATCAGG GAGACAACTG TAATGATATA AGCAATAGTT 60
GAGAACCTGA CAGCAAGTAA TAAGACAGGA AGAATAAAAC TAGAAGAAGT CAGAATGAAA 120

SEQ ID NO:2217

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02528

SEQUENCE DESCRIPTION:

GATCTGAGTT CTGAGCAAGT CAGACTCCTT CCTTTTGGCC TCCAAAGCCA CAGATGTTGG 60
CCGGCCCCACC TGTTTAACTC TGTATTTATT TCCCAATAAA GAAGGGCTTC CAAAGGCAAA 120

SEQ ID NO:2218

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02529

SEQUENCE DESCRIPTION:

GATCGGAACT GTAAAGCTAT AATCCCCAGA ATTAAAGTTT TTATTATTTT TTATACATTG 60
TAAACATAG ACGTTTATTT ATGTGATTAA NTTCTATTAA AATTACATG CTAAANTAAA 120

SEQ ID NO:2219

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02531

SEQUENCE DESCRIPTION:

GATCCAGTTT TTCTTGGGAG GTTGATCTG GTCATAAGGT AAACATTCTA TATATTCTAT 60
GCCTGCTCTA GAATTGAAAG ACTTCAGCAG TATTAAAGCA TTTTAAATC TTAAA 115

SEQ ID NO:2220

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02532

SEQUENCE DESCRIPTION:

GATCTGTATT TGTATATGCT GATGCAATGA TAAAAATCAC TGTAATAGNT TCATTGTGTT 60
GTACTGGATG CAAAGCTAGA AAATATTGCA ATANNTGAGA CCGATGAAAG ACTTCTCTGA 120
AA 122

SEQ ID NO:2221

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02534

SEQUENCE DESCRIPTION:

GATCTTGGGC AAGTTAATCT CTGGGAACCT TGGGTTTCTT ATCCTCAAAA AAGGCGATGG 60
AAGGNTGGG NCNCGTGATT AAATAAAGC AACGCAAGAA AAATGCCAAA 110

SEQ ID NO:2222

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02535

SEQUENCE DESCRIPTION:

GATCGATGGT ACTTTTGGAA AATGCTTTAT TGCAAAAAAG TGGCTAGGGT TTTACAAGGN 60
CTATGAAGAA ACATATTAAG GTTAATAAAG CTTTTATTG AGTGTTAAA 109

SEQ ID NO:2223

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02537

2153480

SEQUENCE DESCRIPTION:

GATCCTCCCT TAGAGCATTT GGAAGAGTGT GGCCTGCCA ACACCTTGAC TTCAAACCTC 60
TGGCCTCCAT AACTATGAAA TAAATNCTG TTGTTTAAAG CCAAA 105

SEQ ID NO:2224

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02538

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTCTGGTGT CAAAGATTTT ACTCATCTTC TTAGTACATT CTATGTATTT 60
NATATGTATA ATTTTATACA ATTAAAAATA GATTTTNGTC TAGTGAAA 108

SEQ ID NO:2225

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02540

SEQUENCE DESCRIPTION:

GATCTTATAT CATTACAGTA GCCTTTTGT AGAATCCATC CTATTTTCCA CATGGATAAT 60
CATGTCATGA AGAATAAAGA CAGTTTACT TCTTTCCTTA AA 102

SEQ ID NO:2226

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02542

SEQUENCE DESCRIPTION:

GATCCCAGGG GAGGGGTCTC TCCTCCCACC CCAAGNCATC AAGCCCTTCT CCCTGCACTC 60
AATAAACCTT CAATAAATAT TCTCATTGGT CAATCAGAAA 100

SEQ ID NO:2227

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02543

SEQUENCE DESCRIPTION:

GATCTGCTGC TTCCAAGTTG TGTGACCTTG GCTAAGTCAC TTAACCTTTC TGATTGTCAT 60
TTCGCTTTTT AATAAAGTGG GTCTGGTGAA CAAGAAA 97

SEQ ID NO:2228

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02544

00852

SEQUENCE DESCRIPTION:

GATCCCACTG TATGGCTATA CGGTATTTTA TCAGTGCATC CACTGTCGGG TTTTCCCT 60
TGTGGACTAT TATGAATAGT GGACGCTGT GTGCAA 97

SEQ ID NO:2229

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02545

SEQUENCE DESCRIPTION:

GATCAGGTGA GCTGTGTCCA GAAAACCAAC GAGAAGGAGT GGAAGGAGGA ATGAACGTT 60
CATTCTCGTT AATAAAGGCA TTATCCTAAT TAAA 94

SEQ ID NO:2230

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02546

SEQUENCE DESCRIPTION:

GATCTAATCT ATTCTGGGG CCATAACTCA TGGGAAAACA GAATTATCCC CTAGGACTCC 60
TTTCTAAGCC CCTAATAAAA TGTCTGAGGG TGTCTCATGA AA 102

SEQ ID NO:2231

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02547

SEQUENCE DESCRIPTION:

GATCATATAT TTGTGGCATA CAGTGTGATG TTTTGACATG NATATAATTT TGTATACAAT 60
GTGGAATGAT TAAAACAAGC TAATTAACAT AAA 93

SEQ ID NO:2232

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02548

SEQUENCE DESCRIPTION:

GATCTGCACT TCCTCCCTT TCACCTACCT GTACACCTAA CCTGGCCTTA GACTGAGCTT 60
TATTTAAGAA TAAATCGTG GTGGTGGTCA AA 92

SEQ ID NO:2233

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02549

SEQUENCE DESCRIPTION:

GATCAGTGGC TGCTGGGTGG CGGGTACCCT TNCTCAGATG CCTGGCAGGN CTGGNTGGCG 60
ATTCATAAAG ACCTCGTGTT GATTCCCCAA A 91

SEQ ID NO:2234

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02551

SEQUENCE DESCRIPTION:

GATCTAACCC CTTACCCATC TNTCTACTGC TGGACTGTGG AGGGTCACCA GGTGGGAAC 60
ATGCTGGAAA TAAACAGCT GCAACCAA 89

SEQ ID NO:2235

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02552

SEQUENCE DESCRIPTION:

GATCTTTTGG AGAGAAACAA ATGAGGATTG TAAAGTTTGG GGACTTACCT CTGTAGCATT 60
GTGAAAATAA ACTTTGATTA AGCTGAAA 88

SEQ ID NO:2236

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02553

SEQUENCE DESCRIPTION:

GATCACCTCG GCGTCTGTTT TGTATGCTCT TTACCTATGG ACTAGTTTGT GGACGGCTAA 60
GAAATACAGC CTCAGCATTG ATTTGAAA 88

SEQ ID NO:2237

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02554

SEQUENCE DESCRIPTION:

GATCTTAAGG AGTGTAATTT GCAATCTAAT TTTATCCTCT TACTCTGTGT TGTAAACCA 60
TATACAATAA ACGGTGTTTA TGGAGAAA 88

SEQ ID NO:2238

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02555

SEQUENCE DESCRIPTION:

GATCTGGCTG TGAGGCCCTC AGGGCAGGGA TACAAAGCGG GGAGAGGGTA CACAATGGGT 60
ATCTAATAAA TACTTAAGAG GTGGAATTG TGGAAA 96

SEQ ID NO:2239

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02556

SEQUENCE DESCRIPTION:

GATCCGGGGA CCAGGGGCTG ACCTCCATTC GTACCCCACT GCTTTGGAGN TGATGGGACT 60
ATCAATAAGA ACTCTGTCA CGCAA 86

SEQ ID NO:2240

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02557

SEQUENCE DESCRIPTION:

GATCAAACCA TTNACCTGG AGTTTGGTAC TGGTTTAACT TTCTCTNAAT CTGTATAAGA 60
AAAATGAAGA CAATTGAAC TTCAAACAAA 90

SEQ ID NO:2241

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02559

SEQUENCE DESCRIPTION:

GATCCAAGTT TTGCGGGGTC TAAAGCTGTG TGTGTTGAGG GGGATACTAA GTTTATGAAA 60
AAGAATAAAA AACACAACCA CGAAA 85

SEQ ID NO:2242

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02560

SEQUENCE DESCRIPTION:

GATCTCGCCA CTNTTCTCCA ACCTGGGCAA TAAAGCAAGA NCCTGTCTTC AAACAAGCAA 60
ATAAAAACTT CCTTATCCTG CAAA 84

SEQ ID NO:2243

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02562

SEQUENCE DESCRIPTION:

GATCCTGTTA GCTTTCTGAA TGTTCGTGG TTGAATGTGT TTTTGCTTAA ATAAAGCTTT 60
TGGTATTTGT TTAAATTAAA 80

SEQ ID NO:2244

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02563

SEQUENCE DESCRIPTION:

GATCCCAACC GTTTGGCACA GCTTTGGCCA CAGCCAGGCC CCTCTGGAAT TGTCTTATT 60
AAACCAGTTT CCCGAGAAA 79

SEQ ID NO:2245

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02564

SEQUENCE DESCRIPTION:

GATCCGGGTC AATGCTTCGT TTTCTAAAGG ATGCTGCTGT TGAAGCTTTG AATTTTACAA 60
TAAACTTTTT GAAACAAA 78

SEQ ID NO:2246

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02565

SEQUENCE DESCRIPTION:

GATCTTGTTT TTCCATGAAT ACAGCATGTA TAATAAAAAT TTAAAGAAAT AAATGTTATT 60
CTACTTTATT AACAAA 76

SEQ ID NO:2247

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02567

SEQUENCE DESCRIPTION:

GATCTTCTGC CGGGCGTGCC CCAGAGGACA GTGGGTGGAG TGGTCCTACT TATTAAATGT 60
CTCAGCCCCT CAAA 74

SEQ ID NO:2248

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02568

SEQUENCE DESCRIPTION:

GATCTCACCT TTGCAAAGTT GGATAGTCAA TTTGTTTTTA GAGGAAATAA AACACTTATT 60
CTGTGATTTT AAA 73

SEQ ID NO:2249

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02569

SEQUENCE DESCRIPTION:

GATCTGGAGA GAAAAACATT CAAACCATTG CATCATACAA AAAAAAGGCT ATTAAAAATT 60
GGATTATAGC AAA 73

SEQ ID NO:2250

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02570

SEQUENCE DESCRIPTION:

GATCAGAGTA AGAATGTCTT AAGAAGAGGT TTGTAAGGTC TTCATAACAA AGTGGTGTTT 60
GTTATTTACA AA 72

SEQ ID NO:2251

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02571

SEQUENCE DESCRIPTION:

GATCAAATCT GTACAGTTTC TATTGTTCCA GATTTTTTTA AGTTTGTATT AAAAGCATGA 60
TACATAATAG TAAA 74

SEQ ID NO:2252

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02572

SEQUENCE DESCRIPTION:

GATCTTTTCA GTGTTTTTTC ACTTTAGCTA TGTGGATTAG CTAGAATGCA CACCAAAAAA 60
ATACTTGAGC N 71

SEQ ID NO:2253

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02573

SEQUENCE DESCRIPTION:

GATCCAGGAG GGAGCCACCC CCAAGGACCC TGCCAGCCAC AGACCTCCAA TAAAGACAGC 60
ATGGAACAA A 71

SEQ ID NO:2254

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02574

SEQUENCE DESCRIPTION:

GATCTGATGT GAATTCAGAT TTCCAATCTT CTCCTAGCCA ACCATTTTCC TGGAATNAAA 60
AATTCAGTAA A 71

SEQ ID NO:2255

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02575

SEQUENCE DESCRIPTION:

GATCCAGAAG TTCTAAATCC AGGATTTTAA TTAGTAACTC AAATAAAATG CCACACATT 60
TCATACAAA 69

SEQ ID NO:2256

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02576

SEQUENCE DESCRIPTION:

GATCATAGTA GTGCCGCTGT TGAGTGATAA AGCAACTTGT CATTAAAGAT GTGTGTNCAG 60
ACATGGAAA 69

SEQ ID NO:2257

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02577

SEQUENCE DESCRIPTION:

GATCCAGCC CAAATNNGCC CATTCACACA ATCAGGAGCN AAATAAATTA CTGTTGTCTT 60
AACACTAAA 69

SEQ ID NO:2258

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02578

SEQUENCE DESCRIPTION:

GATCTTCAGC TGTTTGCCCG TNCTTATTAC ATAAACTGAA AACAGGATAA AAACGGAGTG 60
CAATGAAA 68

SEQ ID NO:2259

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02580

SEQUENCE DESCRIPTION:

GATCTGTCAA AGATATGAAC ATGAAAGAAC AGCTTATTTT AATAAACCCA CTTACATAC 60
AAA 63

SEQ ID NO:2260

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02581

SEQUENCE DESCRIPTION:

GATCAAAAGT AAATGTTCTC TTGCCATT TAGATGGAAA AATAAAAAAA ATTA AAAAGT 60
AAA 63

SEQ ID NO:2261

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02582

SEQUENCE DESCRIPTION:

GATCTACATG AAGGAACTGT AGATGATGTA TTTTTCAT CTTTTTGT AACTGATTG 60
CAATAAAAT GATACTGATG GTGAAA 86

SEQ ID NO:2262

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02583

SEQUENCE DESCRIPTION:

GATCCCTTTT TTATTTTGTG GTTTTAAAT ATAGTATAAA AATCCTTTTA AAAAAACAAA 60

SEQ ID NO:2263

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02585

SEQUENCE DESCRIPTION:

GATCAAAACA GGATTCCATT GACCTAATTA TATTAAGCTA ATAACTAAT TTTTGAATT 60
TTTGAAA 67

SEQ ID NO:2264

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02586

SEQUENCE DESCRIPTION:

GATCAATATT TATTGACTTG TAGTAACTGC CACCAATAAA GCAGTCTTTA CCATGAAA 58

SEQ ID NO:2265

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02588

SEQUENCE DESCRIPTION:

GATCAATAGA CTGTACTTAT TTTCCAATAA AATTTTCAA CTTTGTACTG TTAAA 55

SEQ ID NO:2266

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02589

SEQUENCE DESCRIPTION:

GATCATTCTC AGTATCCACT GTCTATGTAC AATAAAGGAT GTTTATAAGC AAA 53

SEQ ID NO:2267

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02590

SEQUENCE DESCRIPTION:

GATCCATTTN TTTTGTGAAT GTGCTAAATA AAAAGTGTTA TNAATTGCTG AAA 53

SEQ ID NO:2268

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02591

SEQUENCE DESCRIPTION:

GATCCTGCAT CCCACTCCCT GGGAGCCAAT AAAGTGCATT TTCACAGGCA AA 52

SEQ ID NO:2269

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02592

SEQUENCE DESCRIPTION:

GATCACAAAG TCAAAAACCC ATAAGAAAAA TTGAAAAAGC TACAAGCAAA

50

SEQ ID NO:2270

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02593

SEQUENCE DESCRIPTION:

GATCATATTT TCTATTAAAG TGGCTAACAC CTGGCTACTC TTACTGTAAA

50

SEQ ID NO:2271

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02612

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAATCAGT GCACTGTGAA TCACACCCAG CCCCTTTCCC TGCTGTGTGG 60
ATTAGGTGTC AAGACACCTA GTTCTTTCTG GGGCCACCCG GCTGGCCTCA CTGCTTATAT 120
TAAGGCTCCT CCCAACTCTC ATTTTCCTTT GGAAAACAAG ACTTTTTTCC CCATGGTTAC 180
CGCTGAGATA CTGGGGCTGT AGTAGTATAA AAGCTCACAG TTCCTTCTGA GTGCTGAAAA 240
GAGTGCATGA GTTGCTTCGA AATAAAAGGG TCAAGCATTG CTACCTGAAA 290

SEQ ID NO:2272

LENGTH:556

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02627

SEQUENCE DESCRIPTION:

GATCTGTGCT TCCNACTCAC ATGTNAGGCC ACGCCATCCT CTTGCTGAAN CCCTATTGAT 60
GCTTTCTAAC AGGTTCTCGT GTCTCTCCCT GACCAGGCC TCTTACAGAC TGCAGAATTA 120
CCATCCACAG TGTACATTGG ATGAGAATGT GTCACCACCA TGCTTAGAAC CACTCCTATC 180
ACTGACAGGT CAATATCTGA GCTCCTTGGC ACAACACACA TGTCCAGGGA GTGGCCAGTA 240
ATTAGTTGTG CCTGGAGTAT TGAGAGCATC AGTGGCCGGG AACATCAGGC AAGATGTGAT 300
GTTTTAAAGA GCCTTGAATG CCATGCTAAG GACTTNGAAC TGCATTGCAC AGCCCATGGG 360
GAGCTCTGGA AGGTTTAAAA GCAGNGAAGA NCCTTGCCTT TGTCTAAATT CTGTAAGTCT 420
CAAGCACTTC TGCTTTCCTT CATAGNACTT TGTAATTAT TTCAATTGGC TTGGTTNATT 480
TTTTNCNNA TTTTCCCTT AAATTCAAN GTTTTGGGC GGGATTAAAT NNTGGCTTTT 540
TTGNTCNCNT TTAAAA 556

SEQ ID NO:2273

LENGTH:527

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02628

SEQUENCE DESCRIPTION:

```
GATCTGAACA TCTGGCCCAA GTGAAGCATG GCATATAGTG CCCTTGAAG AAAATTAGGC 60
CTCAAATGAC AGTAGCATTG AAGTGTTTGC TGCAGAGTTG AGGGAAACCC CCAGCCACCC 120
TCCCGGAATC CGAGATAGGG TGGCACATCT GTCCTGACAG ACGAGGAGTG TAACTNAACC 180
AGGAATATTT CCTCCATTCC TGCTCTCCCA CTGCACACAG GGTGGTGGCA CATTATCCCT 240
CTGGGGGGTG GGGACGCCTG TTGTTTGGC TCAATTGGG TTTGTTGGTC ACATGGAGCT 300
CTTCCATTTC GTTTAGCTGA ATAATGAGTT GTTCCTAGAG GAGACAGCCT GTCTCTCCTT 360
GTTNCCNCA AAGCCCATGN CCTGNCGTGG TGGANCTGGG GCTTTGGNT GGGGAGGGGN 420
CCCAACAATG GATNTNTTN CCTTNTCCG AATTCCAACG GANTNNAATG TNCAAAGGCC 480
CTTINGAAAC TTGGNGGGAA ANTTAATTNC TNTNCCCTNG NNGTGGN 527
```

SEQ ID NO:2274

LENGTH:458

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02629

SEQUENCE DESCRIPTION:

```
GATCAGCAGC CAATATGGGT TTGTTGGTT TTTTAAATC TTA AAAACAN CCTNTAGAGG 60
AATAGAAACA AATTTTATG AGCATAACCC TATATAAGA CAAATGAAT TTCTGACCTT 120
ACCATATATA CCATTAGGCC TTGCCATTGC TTTAATGTAG ACTCATAGTT GAANTTAGTG 180
CAGAAAGANC TCAGATGTAC TAGATTTTCA TTGTTTATTG ATATGCTCAG TATGCTGCCA 240
CATAAGATGA ATTTAATNNN NNNCAGCCAA AGCAATATAC TCTTACATGA TTTCTAGGCC 300
CCATGACCCA GTGTCTAGAG ACATTAATTC TAACCAGTTG TTTTGCTTNT AAATGAGTGA 360
TTTCATTTT GGGGAACAGG TTTCAAATGG ANTATATNTA CATGGGTAAA ATTCCCCTGT 420
GCTAGTGTAG GNCTTTCCTN GGGGAATGTT TTATGGGN 458
```

SEQ ID NO:2275

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02630

SEQUENCE DESCRIPTION:

```
GATCGACTAC AAGCCAGCCC CTANGCACCT GCTGCTACAT CATGAAGNTA NCTCCAGAGA 60
GCATCCCCAG TCTTGAGGNT CTCAATAGAA AAGTCCACAA CTTCCAGGCC AAGCCCGCAG 120
TGCCTACGTC TAAGCTGGGC CAGGCAGAGG GNCGAGATGC AGGCTCAGCA CCCTCCGGAG 180
GGGACCCGGC CTTCTGGGN NTNGCCGTNA NCACCCTGTG TGGCGAGGTG CCGCTCTACT 240
ACATCTAGGA CGNCTCCGGT GAGCAGGGTC AGTGAAGCC CCAACGGGAA AGGAAACGCC 300
CCGGGCAAAG GGTCTTTTGC AGCTTTTGA GACGNGCAAG AAGCTGCTTT CTTCCACAA 360
CCGNAGGACC AAAACCCTTG GAGAAANTGN GNAGNTTGN GGAGATGGAT TTGGGAGTTT 420
GGCAANAGGG TTGACCNA NGNGGGCCCG GN 452
```

SEQ ID NO:2276

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02631

SEQUENCE DESCRIPTION:

```
GATCTTGTTT ACTTTTGGAC ATCAAGCCCA TCACTGCCAG CCAGTNAAGA AGGATTCCAG 60
CCTATGCCCT CAATCACAAT AAGACCACCA GATGACCAAC ATCTTCCTAC TGCAAATACT 120
TGCATTTCTC GACTTTACGT CCCACTCTAT TCCTCTAAAC AGATTCTCAA ACAGAAATTG 180
TTACTCGCCA TTAAGACCAA GAATNTTGGC NNGTGTAGA GTATAAAAAG TGTGTATTGC 240
TGTGTAATAT TACTAGCAAA TTTTGTAGAT TTTTNTCCAT TTGTCTATAA AAGTTTATGG 300
AAGTTAATGC TGTACATCCC CCCTGGTGGT ACCTTAAAGA GATAAANTGC AGACATTCTT 360
TGCTGAGTTT ATAGCTTAAA AGGCCTAAGG GAGCACTAGC AANCATTTTG GGCTATATT 420
GGGTTTGCTA GGTACCAAC TTTCTGGGG N 451
```

SEQ ID NO:2277

LENGTH:446

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02632

SEQUENCE DESCRIPTION:

```
GATCCAGCCA GGCATCTCGG CGCTTGGCA CCATGAGTTC TATGTCTGGG GCCGACGACA 60
CTGTGTACAT GGAGTACCAC TCATCGCGGA NAAGGCGCCC AGCAAACATG TACACCCGCT 120
CTTCAAGCGC TTTAGGAAAT NATNCTTAGG CAGGGTACTT CGTTCAAGAC CGGCGCTTGG 180
CACCCTTGTT GGAAAGGGNT TTTCAGCATA ACATTTTCCT TCCACCTCTT TGACCTTCCC 240
TCCAGCGTTG GCCAAATTGT GCTGAGGAAG ATGCATCAAG NGNTTGGCTG TGCCTTCATA 300
GGTCATCTAG GGTTTTATAA AGGAGGAGGA GACAATATTT NTTCAAACCT TTTGGGAGT 360
GGGGTCATTT TCTGTATATA AANAATGTTA ATATTAAAGG TGTAGTTTAT GTTACCGTTC 420
TGAATAAACA GATTNGGCCA TTNAAG 446
```

SEQ ID NO:2278

LENGTH:425

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02633

SEQUENCE DESCRIPTION:

```
GATCCACACC TGACCCTGTT GGGTCGAGTT AGGNTGGGCC TTGGTCTGCA CTGTAGCACC 60
TNTGTTCTTT GAGTTCACAT CATGAATGTG GTGACTTNCC AGNTACCATA TCAGGCTTAA 120
CCTAGACAT CCTATTCTT TNCTTCTATG ATATCCAAAT TGGACTGACC TCACTTCAAA 180
GTTGCTGTCC CATTTTGTCA CCCTATCTTA TCTCGGGGAA ATTGCAGACT GATGGCCAGA 240
CCAACCTGTG TGAAATTCTT GCATAGAGCA AACCTGTGCT CATTTTAAAG TGGCATGGGA 300
GAGGCCCCCA GCCTAGTAAA GCCTAGTCTG TGTCTTACA GTGCTGGTAG NATGNGTTT 360
GTGTGTATAA ATATATGATA TAGGATTGAT AATATGTTNN CTAACGGCCA TATTATTGAA 420
GGGCN 425
```

SEQ ID NO:2279

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02634

SEQUENCE DESCRIPTION:

```
GATCTGCCTT AACTCCAAC TACATGTTTT GGTCACTATT ACAAAGTGC ATCCCAGAAT 60
GATGCTGCAG AGGCTAGGGC TAGGACACAG ACCAGTGTTC CCATGTGGGA ATTCCCTCCC 120
AGTATTTCTT AGGAANNNTA TGTTTTTTGA ATCCATAATC CCTAGAAAAA TCAGTTGAGG 180
AAATGAGAAG TATTGTAATT ATNCTGTGAA TAGTAACACT TACCATTATG GAGACATCAC 240
TAGTTTGAAA GANTCCAAC TCAATCAATN TTAACGTACC GAGTTGAAGG NTACAAGANC 300
TGAGACAGGA GCATAGCAGA GGAGAAACGG TCACCATCTC ATTAGCCCTA TTTTGGGNT 360
TGNTGTGATG CCATTACATC TGNAATAATC TGGGCCATNT CAGCTGCTAA TGGN 414
```

SEQ ID NO:2280

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02635

SEQUENCE DESCRIPTION:

```
GATCTCACCT TCCTTCGAAT TCGCTCCAAG AAAAATGAAA TTATGGTTGC ACCAGATAAA 60
GACTATTTCC TGATTGTAAT TCAGAATCCA ACCGAATAAG CCACTCTCTT GGCTCCCTGT 120
GTCATTCCTT AATTTAATGC CCCCAAGAA TGTTAATGTC ANNNNGTCA GTGGACTAGC 180
ACATGGCAGT CGTTGGAAC CCACTCACAC CAATCCAGTG ACCGTGTGTG GGCTGGNGGC 240
TCTNTNTCCC NCNCCAACGG AACCCNGTG TGCACCAACC TTNNCNCAG AGN 293
```

SEQ ID NO:2281

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02637

SEQUENCE DESCRIPTION:

```
GATCTGGCAG GGCACCACAG CGCCCCCTAC TGAACCATCA GCATGTCAGT GGCATTAAAA 60
GCCATGCAGC TGGAGGGGCC ACTGAGATTG TCTCTGAGTA TTACTGAGAA GCAACAGAAA 120
AGAGCCATGG ATGGAGCCCT TGGGCTCTCT GGGAAATGGG AAATCAGCCA AAGGACTGAG 180
AAGGAGTTAC CTTAAGGTCA GAGAAAACCA AGAGAGTGTG GTGTTCTGGA AGCTGAGCTT 240
TCTTTATTCA ACCTCATTC CTTCTCCAAA TAAGCCACTT GTGTAGTTGG GCCCCCTCAG 300
GGTTGAAGGC AAGAGGAGAA AGGCACAGCG TTTGGGAAAC AAGACTTTTC CTGCAATAGC 360
CTGGGGAAGG AATAAAANGG ATAGAGGTGT TTGGGGGAAA 400
```

SEQ ID NO:2282

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02638

SEQUENCE DESCRIPTION:

GATCTGTCCA ACGCCTGCAG CGTGGATGTG GAGGCGGACT AATCAACNAG TGCTCTGTTA 60
 TTATTTCTAC CCATCCCTTT TCTCCATGCT AATTTGCTTA GAACTTTAAC ATTGAATGGA 120
 CAGCAAATGT CATGTTCTGT TTAATTATCA CTCCTTGACC ATTATGTAA TTTCTTTCCC 180
 TAACAAGGTG ACGCATTGTT TTAAGTAACA ATGACCAACT CATCTACTCT TCTTCCAAAT 240
 TGTGTAAATT GAANGGGTAA AATGTGGGAA AACGCTAAAT TTGAATGCTA AATTGAACA 300
 TTTCACACAA CCAATAATTT TGAAATGCTT CTTNGCAATA TTATNGCGGT TTCGGNACCA 360
 GGTTAAAAAT NNCTTTCATT TTCAGGNCAT TTTGGTCAAA 400

SEQ ID NO:2283

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02639

SEQUENCE DESCRIPTION:

GATCGATAAT ATAATTTATA ATGAAATTGC TTTATCAGCT ATTAATGTTA ACTACATCAT 60
 CTTTCATATAG CTTTATAACT CATTTGTGCT ATTCCATTTT CCTCTGTTCC TTTTATTTTC 120
 ACTTCCCTTG TAATGTTAGT CTCTTTGTAC TGATTCTGA AGAGTTCATT TATGATTAAA 180
 CATGTTAACA TTTTGTCTAG AATTGCAAAAT ATGTTTTTCC TCATTCATTT TACTATGGTG 240
 TTTTATTTTT GGGTTATACA GAAGTNGTAT ATTGAAATAT AATCTNGTNC TGTTTTATGA 300
 CTTTGGAGTT TTGTGGTTTT TTNAACCAN GTTTACAGTG GNATCCNTNN ATTNGGTATT 360
 GCCGTCNTAN TNCCNGCAGT TAGGTN 386

SEQ ID NO:2284

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02640

SEQUENCE DESCRIPTION:

GATCTNNTCA AACAGCAAAC GCCCACAGAN GGCCAGAGG NGGTGGTAAT CAGGGTGTGT 60
 GGGTGNTTTT AGGGTTCTTT AGTGTGTGTT CTTTCACCCA GCGGTGGTG GTCCAGCCA 120
 GTTTGGTGCT GACGGTGAGA GGAAATNAGA ATCTGTTTGC AAATTGTCCA ACCCACCCC 180
 TCAACATGAG GGGCTTCCAT TTTNTGTGTT TTGTAAGGGA ACTGTTTCCT TCATGCCGCC 240
 ATGTTCTGA TATTAGTTCT GATTTCTTTT TAACAAATGT TATCATGATT ANGAAAATTT 300
 CCAGCACTTT AATGGCCAAT TAACTGAGAA TGTAAGAAAA TTGATGCTGT ACAAGGCAAA 360
 TAAAGCTGTT TATTAACCTT GAAA 384

SEQ ID NO:2285

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02641

SEQUENCE DESCRIPTION:

GATCTTTTCT ATAATATCCT ACTACTTTGG TTTTCCTAGC TCCATACCAC ACACCTAAAC 60
 CTGTATTATG AATTACATAT TACAAAGTCA TAAATNTGCC ATATGGATAT ACAGTACATT 120
 CTAGTTGGAA TCGTTTACTC TGCTAGAATT TAGGTGTGAG ATTTTTTGTT TCCAGGTAT 180

AGCAGGCTTA TGTTTGGTGG CATTAAATTG GTTCTTTAA AATGCTTTGG TGGCACTTTT 240
 GTAAACAGAT TGCTTCTAGA TTGTTACAAA CCAAGCCTAA GACACATCTG TGAATACTTA 300
 GGATTTGTAG CTTAATCACA TTCTAGACTT GTGAGTTGAA TGACAAAGCA GTTGGACCAA 360
 AAANTTTATG GGCATTTAAA GGN 383

SEQ ID NO:2286

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02642

SEQUENCE DESCRIPTION:

GATCTAAAAT ACCTGGTGGC TTTTNACAAA AAGCAGATTT TNTTCATGTA CTGTNATGTC 60
 TGATGCAATG CATCCTAGAA CAAACTGGCC ATTTGCNAGT TTA CTCTAAA GACTAAACAT 120
 AGTCTTGGTG TGTGTGGTCT TACTCATCTN CTAGTACCTT TAAGGACAAA TCCTAAGGAC 180
 TTGGACACTT GCAATAAAGA AATTTTATTT TANACCCAAG TCTCCCTGGA TTGATAATAT 240
 ATACACATTT GTCAGCATTT CCGGTCGTGG TGAGAGGCAG CTGTTTGAGC TCCAATGTGT 300
 GCAGCTTTGA ACTAGGGCTG GGGTTGTGGG TGCCTCTTCT GAAAGGTCTA ACCATTATTG 360
 GATAACTGGC TTTTTTCTTC CTCTTTGGAA TGTACCATA NAAATAATTT TTTGAACCAT 420
 CAAA 424

SEQ ID NO:2287

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02643

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAAGGGCGG TCCGGGCTCC ACACCTAGCT TCGTGGGCAA ACGCAGAGGC 60
 GGGAAACAAAC TAGCCCTNAA GACGGGAATA GTAGCCAAGA AGCAGAAGNC GGAGGATGAG 120
 GTATTAAACA GTAAAGGTGA CGCGTGGGCC AAGTNCNNGG CAGAAGTGAA AAAGTACAAA 180
 GCTCACCAGT GCGGTGACGA TGATAAACT CGGCCCTGG TGAAATNACG CCCCTCCCCC 240
 ACCTGCCCAT GGCCTGGGAC TCTCTGCGAT GTACATAACT ATTTAATGCA GCGGCANGTC 300
 GACAGCTTTC CCTGAGAGGA CTTAAAAGCA GAAGGAAACC GAGATGCTTC CCGNAAGCCG 360
 TGGACGATTG TCCAAGGN 378

SEQ ID NO:2288

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02644

SEQUENCE DESCRIPTION:

GATCTTCTTG ACTATGCCAG TTGTAGTACC AGCTTCTGTA TCTGCACTGA ATTCTGNCTC 60
 AGTAATATGC CTTTGTTTAA AATTTAAATA TTTTTCATT TTTTAACTT AGAAAATAAT 120
 TATAATGAAN NNNNTAAGTA TCTCATTTTA GGATTCTGAT TTACATAGGT ATCACTGTAA 180
 CTTGTGCTGT TTGCATAGGT ATACTCTATC TTGTGCTATC TGCATAAAAT ATCCAAGTAA 240
 ACACATTGTG ATTTTACATC CGTGCATAGA AAAAAAATC ATCTGAACTC AAATCAATCT 300

GTTGATACTG ACTAGATTGG TGACGTGTTT ATGTGTACCA CTAGTGATAA TGCACGGTCC 360
TGTACAAGCN 370

SEQ ID NO:2289

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02645

SEQUENCE DESCRIPTION:

GATCACAGGA ACAGCAGGTG ACAGGCCTAG CTATAGTTAG GAATACACAA GCCGTAAAAT 60
CGAGTCCTTA CAGCCATACC ACAAGGTACG TCCANNTGGA CTACAAGAAG AGCTTCCTTT 120
AAAGTTCCTA TTTCAGCATA AAGAGGCTGT CCTTTTTTTT NAGGAATAGT TTGGACCTTG 180
TGCCTCCTGT GGGAGGCTGA GGAAGTCAAG AGGAGAGCTA GCAGATATGC CTGTCACCC 240
CTCTCTGGTA CTTGTGGCTT GCTAGTATGT TTNATGATA ATCTCGGGCA TTGTTGCAT 300
TTGTGTTTAT TAATAGGGTT TTTGTTTTTT GTTGTTTCCT NTTTTNACAG TAANGGCTGA 360
ATTACATAAA 370

SEQ ID NO:2290

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02646

SEQUENCE DESCRIPTION:

GATCTGAAAG GAATGCTAGA AGTGTTTAGA GAGCTGACAG ATGTCCGACG CTAAGGGGG 60
CATGCNACAG GGGGAATGGC TCGCTTCAGT GCCCTGCTGC TCAAAGCTCT AGGGNAGAAT 120
GCAGTCGGGT AGNCTGTGGG GCTCTAACC CACAGCAACC TCTAGGGATG ACGTCACTAA 180
AAACCGATGA AGCCTCCATA ACATTGGTTC CTTACTGACG CTGAGGAGCA NGGCAATCTT 240
CACACCTTAA CCAATGCTAT TCATGTAGGA TGACCAAGAA ATGAATGTTT CTTACTGAAA 300
TAATACATAT TTTTGGCATC TTTTGGTTAC CCATAGACTA ATTAANCTA ATCCNNGGNT 360
TTATAAA 367

SEQ ID NO:2291

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02648

SEQUENCE DESCRIPTION:

GATCCTGACA GAGCCCTGAA CAGATTATAT CACTCGGCTA GAGGCACTGC AAAGACGACT 60
TGGAACATA CAGTCAGGTT CAACTACTCA ATTCATGCT GGCATGAGAA GATAATCCTT 120
TGAAACATCA TTAATTGAAG TGATTTTAAA TAGATTTCTT TTTGTAAATC AATGGTTCTT 180
TTGTGCTTTN GNNNNNNCGA ATATTCAATG GGACCAATAT GAACACAGCT TATGATTGTA 240
TACAAATCCC TTGCCAGCAC ATGAAANCAA ACTGGANTTT GTATATATAA GCATTGTGTA 300
TGTATTATG CACAATAATT ATNGANTTAC CTGTATATTT GTGGGAATGC TAATTTAAN 359

SEQ ID NO:2292

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02650

SEQUENCE DESCRIPTION:

GATCTGTGGG TCCGGCTGNA GGAGAGTGAC ATAGTCCCGC AACTCCANNT TGCCTGTCCT 60
GGACAGGCAC ATCTCCACTG AACTGCGGCT CCNTCGCCGT GGGCATTCCC ACCACAGCCA 120
GATGGTGGCC AGCAGTGCCT GCCTGTNTCT CTGGACTCCT GTGTTCTGGG TGCTGGTGCT 180
GGCTTTCCAA ACAGAGACAC CGCTCCTGTA ACGACTGGAA GCACCAGGCT AAGNACCTNA 240
CCCCTCGNAC TTNGAAGGAA TGGGCATTNC NGTACTTCAA CATTCTGGGT CTAGGCCTTG 300
TTGGGGCCAA TTCAAGAAGN GGCCTTGTTN TTNGAAAAA GTGGGCCNNG TTTTAN 357

SEQ ID NO:2293

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02651

SEQUENCE DESCRIPTION:

GATCCTTCTT TTTGGTTTTG GAAATATAAT CATTGTTAAT GTTTCCCTC CAAATAGAAT 60
ACTGTTTTAT CCATACAAAT CATAACAGCA TCTATCCCAT GCTAGGGTTG GAAACTGATA 120
TTGTATTAC TTGTGTTTTT CCTTAGTGTG TTTATTTCC CAGTTTCATC TNCTTTTAA 180
AATGAAAATA TGGTGCCTTC CCTCCCTCCA GGAAGACTGG CAAATATTNC CTTTATTTA 240
CTGCTGCTGT GGAGTGATGA GATATGCACT TTA CTCTTA AGATTCAGCA AAAAGCTTTT 300
CACTTCTCAG TATATCCAGA ATACATCATA TCTGGGACTT AGGAAAATTT GCCAN 355

SEQ ID NO:2294

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02652

SEQUENCE DESCRIPTION:

GATCTTTTAC ACCACATCAC AGTGANCACA CTGGGGAGAC GTGCTTTTTT GGNAAACTCA 60
AAGGTGCTAG CTCCTGATT CAAAGAAATA TTTCTCATGT TTGTTTATC TAGTTTATAT 120
TTNCATTTAA AATCCTTTAG GTTAAGTTA AGCTTTTAA AAGTTAGTTT TGAGAATTGA 180
GACACAATAC TAATACTGTA GGAATTGGTG AGGCTTGACT TAAAACTTTC TTTGTACTGT 240
GATTTCTTT TGGGTGTATT TTGCTAAGTG AACCTTGTTA AATNTTNGT TAACTAAATN 300
TTTTCTTAA AATAAAGACT TTTTCACAAA 330

SEQ ID NO:2295

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02653

SEQUENCE DESCRIPTION:

GATCCTATGG ATTTCCCGG CTGGTTGCCA CTACTNTACA ACATTCANAG CCCACATCCA 60

TCTGTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TTCCCTGCTG TATGACATGC 120
 ATTTGGGAAG TTGGAAGAA ATGACAAAAT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
 TAGATAGAAT CAGCCCTCAC TTGGTGCTTA TTACCAGTTA TTCANGGACA ATAACAACAA 240
 CAAAATTAGT AGACATNCAT GANGCACATN TTTAGGNCCA AAGGNTAGCA TCAACTTGTA 300
 TTTNGAAGGG ACTGTAGTTT TCGGCATTTT ATGGCNATTT TTTATNAAAG TN 352

SEQ ID NO:2296

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02654

SEQUENCE DESCRIPTION:

GATCGCAGCC GCTTCGCACG CCGCATCACC CAGGCCAGG AGGAGCTGAG CCCCTGCCTC 60
 ACCCCTGCTG CCCGGGCCAG AGCCTGGGCA CGCCTCAGGA ACCCACCTTT AGCCCCATC 120
 CCTGCCCTCA CCCAGACCTT GNCTTCCTCC TCTGTCCCTT CGTCCCCAGT NCAGACCACG 180
 CCCTTGAGCC AAGCTGTGGC CACACCTTCC CGCTCGTNTG CTGCTGCAGC GGCTGCCCTG 240
 GACCTCAGTG GGAGGCGTGG CTGAGACCAA CTGGTTTGCC TATAATTTAT TAACTATTTA 300
 TTTTCTCTAA GTGTGGGTTT ATATAAGGAA TAAAGGCTTT TGATTTGTAA A 351

SEQ ID NO:2297

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02656

SEQUENCE DESCRIPTION:

GATCCCCGTT CCTGACATCA CAGCAGCCTC CAACACAAGG CTCCAAGACC TAGGCTCATG 60
 GACGAGATGG GAAGGCACAG GGAGAAGGGA TAACCCTACA CCCAGACCCC AGGCTGGACA 120
 TGCTGACTGT CCTNTCGNGT NCAGCCNGTG GCCTTGGCTT TTCTAGCCTA TTTACCTGCA 180
 GGCTGAGCCA CTNTCTTCCC TTTCCCCAGC ATCACTCCCC AAGGAAGAGC CAATGTTTTN 240
 CACCATAAT NCTNTCTGCC GANCCCTAGT TCCCTCTGCT CAGCCAAGGT TTGTTATCAG 300
 GTTTTCAGGG GCCATGGGTT CACATTAAGG ATTTAAAAGG GTAGTAATTT GGGGAAA 357

SEQ ID NO:2298

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02657

SEQUENCE DESCRIPTION:

GATCAAATTT NAGTGGCTTT GGACAGAAAA GAAGGCTCTG GATTAAAGCG GGTGGTCACC 60
 TGTGAGACCA GGTCTACCTT GGGACTGTTA TTAACTGAA TCAGTTATTT CCTTGAAATT 120
 TCACAGTAGT GGGTGGGCCT GTTTAAGGC TCTGACAGAT ACCACGAAAC ATGANGCNCG 180
 NNGAACTACA AGACCCCGG GGTCTTTCTG AGTGCAAGGC TGAATGGAC AAGGGCTCCT 240
 CACGGGGGTG GAGGGAGCCG GAGCCTGCCT TGTGTTCCCT TTTTGACTTG TGACATTTTT 300
 CAAACACATA ATTTAAAGGA CTTATGCTCT GCTGTCTCAG GAAA 344

SEQ ID NO:2299

LENGTH:462

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02658

SEQUENCE DESCRIPTION:

```
GATCTGGTCC CTGAGAAACA TATTGTGATG AAGTGGAGGT TTAAATCTTG GCCAGAGGGA 60
CACTTTGCCA CCATCACCTT GACCTTCATC GACAAGAACG GAGAGACTNA GCTGTGCATG 120
GANGGTCGAG GCATCCCTGC TCCTGAGGAA GAGCGGACAC GACAGGGCTG GCAGCGGTAC 180
TACTTTGAGG GCATTAAACA GACCTTTGGC TATGGCGCAC GCTTATTTTA GGGCCAGCGG 240
CAGGGGACTC CAGCCTGCTG GACACTTCAN GTCCAGCTCT CTCCTGACTG GGGCTTNCGA 300
CTCAGAGGAT TGCATCGNCC CAGCTGCTAA CTTNGGGCCG GGGGGCCNTC CCTTNCACAA 360
TATACCTTGG GTTNTTGCAT GTTTTCCTNN CTGGGTTGGG GTTCAGAGGG GCAATTCNN 420
CTTTAATGG TGTACATATN NCTANATANN CATAATTTTA AA 462
```

SEQ ID NO:2300

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02659

SEQUENCE DESCRIPTION:

```
GATCAACTTC CCACAACTG AGGAATGAAT TCCACGAGCC TGTTCGAAA ATNTGGACGT 60
AAGACAAACA CGTGCTCGTC CTTTAATGGA GTTCACCAGC ACACTTGTTA ACCAGTCCTG 120
TTTGCTTTCG TCTTTTTTTG TGCCTAATAA AGTCAACTGA CCAAGTGACC ATGAAAAGGG 180
GCTGTCTGGG GCTCCTGTTT TTNAGCTGCT GTTCTTCAGC TCCGACCATG TTGCTGTGTG 240
ATTATCTCAA TTGNTTTTAA TTGAGGCAGA AACTGAAGCT CTACCAATGA ACTGTTAGAA 300
ACAAGACACA CTNTNGTATT AAAATTGCTT GCAGTAACAA A 341
```

SEQ ID NO:2301

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02660

SEQUENCE DESCRIPTION:

```
GATCNGTGGC AAAACCAAGT GTGGTCTTTC AGCTTCAGTG TGTTAGCATC CCAGCACCTG 60
GGATGGGGTT TGTGGGCAAG TTGATTTTGC CACACTGTAG GGCCAGGTN NNCCATTGC 120
CACCGTGAAG CCAAATNCTA GCCCAAGTCT GGTAGAGCAG TCGGGCAGCT AGTTTCCGG 180
GGAGGATGAT GTGGTGGGAC AGAGGACCTC AGTGGCCTAT TACGGAGCCC TCTTCCAGA 240
CTAAATTCAT AGCCGAGAGC TCGGGGGGAT GGTAGAGTTA AAATTTAAAA TAATTTTCTA 300
AATTCTGTAT TTGGATATTA GTGTTAAGT GGTAATTTN 339
```

SEQ ID NO:2302

LENGTH:441

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02661

SEQUENCE DESCRIPTION:

GATCCAGGGG CTGCCTCTGG CCTCTTAGGG AGCAGAGAGC AGAACTCCGC AGCCCAGCCC 60
 AGAGGAGTGT CACCTCCAC CTTGGAGAG GAATCCTTCC CTCCCCTGGA CAAAGTTGCT 120
 GACAAGCCCC TGAAGTGGCC TCTCCATATT CCAGCTGAGC CTGAATCTGA CTCTTGAGGG 180
 TTGGGGCTGC ACTTATTTAT TGCGGGGAGA CAGCTCTCTC TCCCACCTNC TCCCAGATG 240
 GGAGGAGAGC CTGAGGCCCA AGCAGGACCC GGGGGTTCCA GCCCCTAGCT GCTCTGGAGT 300
 GGGGGAGGTT GGTGGACCAT GGGAGTNCCT GGTGCTGCCC CTNAAGGTGG GACCCAGGCG 360
 TTNTCAAGCT GTACCCTTTT NCCGATGGAA TTTGTGTTT TGAANATNNG TGTCTNNTAC 420
 TANTTNTTTT AAATAAAAAA N 441

SEQ ID NO:2303

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02662

SEQUENCE DESCRIPTION:

GATCATGGCA TCCAAGACCA GAGTCTCAGA ACTCATTAAG AAACAGTTTA CTTGGAATGG 60
 AGAATACCCA TCTGTAATAC AGGTCTGTG ATTTTCATTCA TCTCAAATTA TTTTGAATTC 120
 TTCCCAAATG GCTGCTGGAT TTAGGTGGTA ATAGGGGCTG TGGGCCATAA ATCTGAAGCC 180
 TTGAGGAACC TTGGGTCTGG AGAGCCATGA AGAGGGAAGG AAAAGAGGGC AAGTCCTGAA 240
 CCTAACCAAT GACCTGATGG ATTGCTCGAC CAAGNCACAG AAGTGAAGTC TGTGTCTGTG 300
 CACTTTCAC AGACTGGNGT TTTTGGTNCT GAATAN 336

SEQ ID NO:2304

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02663

SEQUENCE DESCRIPTION:

GATCAAGTNA CTTCTGCCA CCTGGACACA ACACCAAAAA GGCTTCTAAA NACGGGTGTN 60
 AGTCTTTTNA GCAACCCGGT CCAGTACTGG GAGATACAGC CATCCACCTT CANATGTGTC 120
 TACGTGCGCT CTGCCATTCA ACTCGGAAAC TATAAGTAAT TCTNAAGAAA GCCCTCATTT 180
 TTATAACCTG GCAAAATCTT GTTAATGTCA TTGCTAAAAA ATAAATAAAA GCTAGATACT 240
 GGNAACCTAA CTGCAATGTG GATGTTTTAC CCACATGGCT TTATTATGCA TAANGCCAAT 300
 ATTTCTGTG TTAAGTAATN GCCTTCAATT NNNAAGNTAA TTTTGGCCTG NCCCANAAAT 360
 AAA 363

SEQ ID NO:2305

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02664

SEQUENCE DESCRIPTION:

GATCAGAGTT CCTCCTACTT ACAACCCAGG GTGTGAACAT GTNCTCCATT TTCAAGCTGG 60

AAGAAGTGAG CAGTGTGGA GTGAGGGCTG TAAGGCAGGC CCATTCAGAG CTATGGTGCT 120
TGCTGGTGNC TGCCACCTTC AAGTTCTGGA CCTGGGCATG ACATCCTTN TTTAATGAT 180
GCCATGGCAA CTTAGAGATT GCATTTTAT TAAAGCATTT CCTACCAGCA AA 232

SEQ ID NO:2306

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02665

SEQUENCE DESCRIPTION:

GATCTTAAGT ATAATTACAA GGAAGAAGTG AAGAAGAATA TTCTCTTAGA AGAGAAGGTA 60
AAAAAACTTT CAGAACAATT GGGAGTTGAA TTAAGTAGCC CTGTTGCTGC TTCTGAAGAG 120
TTTGAAGATG AAGAAGAAAG NNCTGTTAAT TTCCCCATTT ACTAAAGGTC ACCTATAAAC 180
TTTGTTTCAT TTAAGTATTT ATTAAGTTAA TAAGTTAAAT ATACTTGAA ATAAGCAGTT 240
CTCCGAAGTG TAGTATTTCC TTCTCACTAC CTGGGTACCT TTATACTTAG ATTGGAATTC 300
TTAATAAATA GAATTATATG AAATTTTCAN 330

SEQ ID NO:2307

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02666

SEQUENCE DESCRIPTION:

GATCGACTTA CTCAACATGA GACAATTCAT ACTGGTGGA ACCACANAAA TGCAAAGAAT 60
GTGGTAAGGC CTTTAGTCAT TGCTATCAAC TTAGTCAACA TCAAAGATTT CACCATGGTG 120
AGAGACTCTT AATGTAATGA GAGGGAAAGC CTTTAGCCAT GGAACATTTT TACTGTTGTC 180
ACTATTATNA TGCTATAGTG AAGATTAAAC TAGTTAATAT AGAATATAAA TACTTGGAAG 240
GGCATCTGGC ACATCGTATT TGCTTACTAA ATACATTATT TTTATGATAA TTGTTAGAAT 300
TACTAAAAAT AAATCTTATA GAAGGAAA 328

SEQ ID NO:2308

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02667

SEQUENCE DESCRIPTION:

GATCTCAGGT ATCAGACCAC TGAGCAACCC ACCGCCAGNC TGCAGGCTTT CAGAGGCCCA 60
CCTGGGCCCC GCGTGGCCTG CCCCAGGGTG GGCTCCCAGC GCAACTGCAG GCATCCTCTA 120
GTGGGGCCTC TGTAACCCT AGCAGATGGT GGTGACCCCC CTGAGATGAG GAAGCTGGTG 180
ACCTNNGACT GAGCAGCAGC CTATGGGCTC CGGGTCAAGT GCTATTCCCA GCGGATGCC 240
TTCCCCTTGC GNCAGTCCCT CCTTNTCTGA GTGTCCAGGC GCNANTGNAA AACAGNAACC 300
CTAGGGTCTG GAACTACTT TTTTNTN 327

SEQ ID NO:2309

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02668

SEQUENCE DESCRIPTION:

GATCCAGTTG TTATAGTGAA CTCATGGTAA TGGTTTGTGA GAACAATAGA GATTTTNATT 60
TCTATGTAGA TGAGTTGGTA TGAGAATATA TGGAATTTT AAGGGACTGT TTAAATCTTT 120
GATTTGTAGA CTATTAAATA TACCGTATGC ATAAAGTAAG CCTTAGCTC TAAGGTAAAG 180
ACGACACGTT TTCGGTTTGT GACTACAAAT AGGTAAAAA TAGATTTTAA TTTTATTTAA 240
AATATAATTT AATGCAGGTT GTTTGAAGCA TCTGTCTTCA TATGATGGCA TTAGAACACC 300
TTGGTATAAT AAAAAGTTAC CGTAAA 326

SEQ ID NO:2310

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02669

SEQUENCE DESCRIPTION:

GATCAAGAAG GAGCTAGAGA CCATTTCAAA GAAAAAAAT GCTTTATAGA GTTTTAAGTA 60
TGACTTAGAT GGGTCCAGGC AAATAAATA AAAAGAAGTG AAGGCAACAT GTATCGTCTG 120
GCAGAACTAA ATCTTGGAGT GGGGTGAGGG ATGAAAGACT ACATATTGGG TACAGTGTAC 180
ACTGCTCGGG TGATGGGTGC GCTAAAGTCG CAGAAATCAC TAAAGAACTC ATCCATGTAA 240
CCAAACACCA CCTGTACCCC AAAAACGAAA TAAAAAACA AAACCTTGGG GCCCATTCCC 300
CCTAGGAATG GACTACTGTA AA 322

SEQ ID NO:2311

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02670

SEQUENCE DESCRIPTION:

GATCTAAATT ACCTTGGGTT TCGCATATGT CTATGAAATN CTGTGATAAN GTTTTCAAT 60
ACATTGNTTC ACTGGCGTCT GTTTTCANTT TATACTTTTA ATAACATC ACTGGTGGTA 120
CTTTATCTTG AAAAGTAATA TTTTNTATAT TTTANCATTG GACAGTGTTA GCCAGTTGTA 180
ATGATGTATC AGANGTAAAG AAAAACCCAT TAAAGTTATA GCTAATAGAT GCTGTTGGGG 240
GTTAAATTAA TAGTAAANTA ATCCAATATA GCACTNTNNA TGATTTNTTA TATAAANGTC 300
AACTGGTACA TTTCATTGAG N 321

SEQ ID NO:2312

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02672

SEQUENCE DESCRIPTION:

GATCGAAGGG TTTTATAGAGA ATGNTTTTCA AAACCATGCC TGGTATTTTC AACCATAAAA 60
GAAGTTTCAG TTGTCCTTAA ATTTGTATAA CGGTTTAAAT CTGTCTTGTT CATTTTGAGT 120

ATTTTAAAA AATATGTCGT AGAATTCCTT CGAAAGGCCT TCAGACACAT GCTATGTTCT 180
 GTCTTCCCAA ACCCAGTCTC CTCTCCATTT TAGCCCAGTG TTTTCTTTGA GGACCCCTTA 240
 ATCTTGCTTT CTTAGAATT TTTACCCAAT TGGATTGGAA TGCAGAGGTC TCCAAACTGA 300
 TTAAATATTT GAAGGGAAA 319

SEQ ID NO:2313

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02673

SEQUENCE DESCRIPTION:

GATCGACAAA ACTTTGAACG AGGCTGACTG TGCCACCGTC CCGCCAGCCA TTCGCTCCTA 60
 CTGATGAGAC AAGATGTGGT GATGACAGAN TCAGCTTTTG TAATTATGTA TAATAGCTCA 120
 TGCATGTTTC CATGTCATAA CTGTNTTCAT ACGCTTCTGC ACTCTGGGGA AGAAGGAGTA 180
 CATTGAAGGG AGATTGGCAC CTAGTGGCTG GGAGCTTGCC AGGAACCCAG TGGCCAGGGA 240
 GCGTGGCACT TACCNGNGGT CCCTTGCTTC ATTCTTGTTGA GATGATAAAA CTGGGCACAG 300
 CTCTTAAATA AAATATAAAT GANCAAA 327

SEQ ID NO:2314

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02675

SEQUENCE DESCRIPTION:

GATCAACCAC ATGCACATCC TTAACACAGA ATCCGTCCTT TCATTTCAAC ATTATAGCAA 60
 GCTATGATTT TNATATATAA ATATTATATA AATNANGTAT AANACATTAA AAGTTAACTA 120
 TGTAAGATAT TATNTCTGAA ACAATTTAGC TATATCCACT ATGATTATAA ACTGTGTCTC 180
 GACCTGTGTT ATNTACANAA GCTGCTTAAA AAAGCATTGA GTTAATTTTN TTAAATATCA 240
 ACTAAATAT CATAGTTCTG TGGNNGACAT TGTGTTATAA TGANATAACT GCAACTAGAG 300
 AAANCTGTAT AAN 313

SEQ ID NO:2315

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02676

SEQUENCE DESCRIPTION:

GATCGAGGAC ATAAGGAACT AGTCACAGTG TTGCTGCAAC ATAGAGCTGA CATTAACTGT 60
 NAGGACAATG AAGGCCAAAC AGCTCTACAT TATGCCTCTG CCTGTAAGTT TCTGGATATT 120
 GTAGAGCTGC TGCTCCAGTC TGGTGCTGAC CCCACTCTCC GAGACCAGGA TGGCTGCCTG 180
 CCAGAGGAGG TGACAGGCTG CAAAACAGTT TCTTTGGTGC TGCAGCGGCA CAACTGGC 240
 AAGGCTTAAT CAAAAGACTG GAAAACAGCA GTCTGTAATA GCATAAGGCT TCCATTATGA 300
 AAGAAAATA CAGAAATAAT ACTTCTTTTC CACCCGCTTT TGGTATGTAT TGGCTTATAA 360
 AATTN 365

SEQ ID NO:2316

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02677

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGCTGGCA ACGCGTGCCT NACAACAAGA AGACCAGGAT AATTCCCCGC 60
CACCTGCAGC TCGCCATCCG CAACGACGAG GAGTTAAACA AGCTGCTGGG CAAAGTGACC 120
ATCGCTTAGG GCGGCGTCCT GCCCAACATC CAGGCCGTGC TGCTGCCCAA GAAGACGGAG 180
AGTCAGAAGA CGAAGAGCAA ATNACCCTGA CGCCGNCCTC AGGGAGCTGN CTNCGNCANA 240
TAAGGCCCTT TTNATGGTCG TCCCGCAATG CTTTGAATG TGCTGGNTGT CATGGAGGGC 300
CGGTGACN 308

SEQ ID NO:2317

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02678

SEQUENCE DESCRIPTION:

GATCTAGATA ACTCATGACA TTTTATTGA CCAACATAGC ACATGATGAG ATATCAAGGT 60
AATTAATAA GCATGCTTGA AAAAAAATA CGTAATCTGT TTCACCTGTA ACTGTTTAAG 120
CCAATAAACT TTTCAAAAT TATGTAATGT GGGGCTTTA TGTAGCACTT TACGTTTCA 180
TGCTGCTTAT TGTTTTATTC TACTGAAAAA AATGANNTTC AAGATTCTCA ACTTNTTAA 240
TTTCAAAAT NGTTTATGGT TTTGACTATA GGAATACAAA ANTCCTATT TNGGGNGAAT 300
AAGAAA 306

SEQ ID NO:2318

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02679

SEQUENCE DESCRIPTION:

GATCCCCTGG CTCCCCAGCA CACATTCCTT TGAAATAAGG TTTCAATATA CATCTACATA 60
CTATATATAT ATTTGGCAAC TTGTATTTGT GTGTATGTAT ATATATATAT GTTTATGTAT 120
ATATGTGATT CTGATAAAAT AGACATTGCT ATTCTGTTTT TTATATGTAA AAACAAAACA 180
AGAAAAAATA GAGAATTCTA CATACTAAAT CTCTCTCCTT TTTTAATTTT AATATTTGTN 240
ATCATTTATT TATTGGTGCT ACTGTTTATC CGTAATAATT GTGGGGAAAA GATATTAACA 300
TCAAA 305

SEQ ID NO:2319

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02680

SEQUENCE DESCRIPTION:

GATCGAAATC ACTATAATTT TAACCCNGT GATTGGAATG AATATGGTTT GTGCTGGAAG 60
 CTCGAGGTG GAAGAGACTC GTGCAATGGA GATTCTGGAA GCCCTTTGTT GTGCGAGGGT 120
 GTTTCCGAG GGGTCACTTC CTTGGCCTT GAAAATAAAT GCGGAGACCC TCGTGGGCCT 180
 GGTGTCTATA TTCTTCTCTC AAAGAAACAC CTCAACTGGA TAATTATGAC TATCAAGGGA 240
 GCAGTTTAAA TAACCGTTTC CTNTCATT TAATCTTTT CACAAATAAA 300
 ATN 303

SEQ ID NO:2320

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02681

SEQUENCE DESCRIPTION:

GATCCCTGCT GAATCCACAG GCCAAAATAG TCAATGTAAC TGCAAATCTA ATTTTCATCCT 60
 CCTTTCCTGA GGCCAATCA GGAAATNAAA GGACGATTCT AATTTCCACT GCGGTACTT 120
 TTGTGGATGT GTCTGCACCT GCAGAGGCAG GCTTCANAGC TCCACCAGCC ATCAATGCCA 180
 GGCTGCCCTT TAACCTCTTC TTCCCGTTG TTTGACAATG CTCAGATGCA TCAGTTCCTT 240
 AATATACACG TGAAATTGA AAAGTGTACA TTCGGTGAGA TTAAATTTTA TATACAACTA 300
 AA 302

SEQ ID NO:2321

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02682

SEQUENCE DESCRIPTION:

GATCCAATTA AAAAAAATTA AAACCAATTT AAAAAAAAAA AGANCACAGG AGATTCCAGT 60
 CTAATTGAGT TAGCATAATA CAGAAGTCCC CTCTACTTNA ACTTTTACAA AAAAGTAACC 120
 TGANCTAATC TGATGTNAAC CAATGTATTN ATTTCTGTGG TTCTGTTTCC TTGTNCCAAT 180
 TTGACAAAAC CCACTGTTCT TGTATTGTAT TGCCCAGGGG GAGCTATCAC TGTACTTGTA 240
 GAGTGGTGCT GCTTTAATTC ATAAATCACA ANTAAGGCC AATTAGCTCT ATAACANAA 300
 A 301

SEQ ID NO:2322

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02684

SEQUENCE DESCRIPTION:

GATCAAGCGG AAAGAGTTTA AGTGTCTAAC AAACCTAAAG CTAATGTAAG ACCTAAAAAG 60
 TCAGTGTGTT ACATAGCATA AAAACTCTGC AGAGAAGTAT TCCAATAAG GAAATAGCAT 120
 TGAAATGTGA AATACAATTN CTGAAAGTAA TGTTTTTTN CTATCATCTG GTATACCATT 180
 GCTTTATTTT NATAAATNAT TTCCTCATTG CCATTGGAAT AGATATCTCA GATTGTGTAG 240
 ATATGCTATT TAAATAATTT ANCAGGAAAT ACTGCCTGTA GAGTTAGTAT TTCTATTNN 300
 ATATAANGTT TGCACACTGA ATTGAAGAAT TGTTGGTTTT TTCCN 345

SEQ ID NO:2323

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02685

SEQUENCE DESCRIPTION:

GATCTTTTCT AATATGGTAT TACAATGAAA AGAATAAAGA GAAGATTGGA ATTNCAAGTT 60
TCATTTTCAA AAACATATTA CCAAAACAAA TGGAGAAGAA ACATCCAAAA GCACATTTC 120
TTTCTCCAAA CTGTGTGTTT TAAATTATAG TTATAAATNG TAAGGTAATT TTAAATTGTC 180
CCTCGTATTA TTNCTCCACG CCTGTTTtag TNTNNGGTCT CCTAAGCTTT TCTCTCATAG 240
CGTAGACCTA GGGGAAGGGAT GGGGAAGATTG CCCAGTCCCC GATGGCTGCG CACACAGGN 299

SEQ ID NO:2324

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02686

SEQUENCE DESCRIPTION:

GATCCCTCTG TACAGGCTGG ATGGAAGGGG CCCTCCACAC TTCCTGGGAG GTCAGAGACA 60
AACTGTTTCA GAGAGTCAGA TGGACTTCCC AAGACTTGTT GAGAGATGTG ACATGGTTCT 120
TGGATTTCCT CTGTAGCAGC CTCCTGGACT TCCTGAGGAC TCGACATTGT CCACAGATGT 180
ACTGGCCATT ACATGAAACA AGAAACCAAG CATCTTTGCT GTTGTTAATT ATTATATGTG 240
CCATTGTTAC AGGAGATTAT AGGCTAGTCT GTAATAAATT ATCTTATAGC AGCCAAA 297

SEQ ID NO:2325

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02687

SEQUENCE DESCRIPTION:

GATCAGCAGC CGAGAAAAGT ACATCAACAA TCAGCTTGAG AATTGGGTTT AAGAATATCG 60
TGCAGCTCAA GCCCAGCTGA GTGAGGCAAA GNAGCGATAC CAGCAGGGAA ATGGAGGNGT 120
GACGGAAAGA ACCAGACTCC TCTCTGAGGT TNNGGAAGAA TTAGAAAAGG TAAAACAAGA 180
AATGGAAGAA AAGGCGAGCA GCATGACTGA TGGTGCTCCT TTGGTGAAGA TTAANCNNNG 240
CTTNNCANAA CTGAAGCAAG AANCTGTAGN GATGGACATT AGANTTGGCA TTGTGGN 297

SEQ ID NO:2326

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02688

SEQUENCE DESCRIPTION:

GATCCNACTT TAGAAGCCTA CTTTNTAACC AAGGAGCTCA ATTTTTTTTT TAAAGCTTTA 60
CTAATCTACC ANAGATTGT AGATATTTTT TTTTAACATC TATTGTTTAA AATAGATNAT 120

TATAACGGGG CAGAGAACTT TTTTTCTCT GCAAGAATGT TACATATTGT ATAGATAAAT 180
 NAGTGNCATT TCATACCATG TATATATAGA GATGTNCTAT AAGTGTGAGA AAGTATATNC 240
 TTTAATAGAT ACTGTAATTA TAAGATATTT TAAATTAAAT ATTTTTTGT AAATAAA 297

SEQ ID NO:2327

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02689

SEQUENCE DESCRIPTION:

GATCCTATGT CTGTCTGTCC ACCACGAGAT GGGAGGAGGA GAAAAAGCGG TACGATGCCT 60
 TCCTGACCTC ACCGGCCTCC CCAAGGGTGC CGGCACTCTG GGTGGACTCA CGGCTGCTGG 120
 GCCCCACGTC AAAGGTCAAG TAAGACGTAG GTCAAGTCCT ACGTCGGGGC CCAGACATCC 180
 TGGGGTCCTG GTCTGTNAGA CAGGCTGCCC TAGAGCCCCA CCCAGTCCGG GGGGGNTGGN 240
 GAGCAGTCC AAGACCACCN CACCNCTTT TGTAATNTT GTTCATTNTA ANTCAAATAC 300
 AGCGTNTTT TCANTTCTGG GAAA 324

SEQ ID NO:2328

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02690

SEQUENCE DESCRIPTION:

GATCTGCAGG GGTCTGGGAG TCAGGCCCGG CCTATTGCTT GGGTCTCTCT CTATTTATAT 60
 ATCTAAGTTC ACAGTGTTC TTATCCCC TAAGCTTCTA GAGGCTCATG GCCCTGTAGT 120
 TAGGCCTGGC TCATTCTGCA CCTTCCAGG GAGGTGGAAG GACCCTGTGC CCTCCTTCCC 180
 AATCTTCTTT TTCAGGCTCG CCAAGGCCTA GGACCTATGT TGTAATTTTA CTTTTTATTT 240
 CTAAAGTTGT AGTGAAGCTC TCACCCATAA TAAAGGTTGT GAATGTTCAA A 291

SEQ ID NO:2329

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02691

SEQUENCE DESCRIPTION:

GATCTAGAAT CTCTTTATGT TCTCCAGAGG AAGGTGGAAG AAACCATGGG CAGGAGTAGG 60
 AATTGAGTGA TAAACAATTG GGCTAATGAA GAAACTTCT CTTATTGTTT AGTTCATCCA 120
 GATTATACT TCAATGGGAC ACTTTAGACC ATTAGACAAT TGACACTGGA TTAACAAAAT 180
 TCACATAATG CCAATACAC AATGTATTTA TAGCAACGTA TANTTTGCAA AGATGGNCTT 240
 TANAAGATGC TGTGTAGCTA ANCTGAANTA ATTCATTAC TTATTATTN 290

SEQ ID NO:2330

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02692

SEQUENCE DESCRIPTION:

GATCACTCCG CCTTNTCCTG GGCTCCCGTA GCACACTATA ACATCTGCTG AAGTGTGCT 60
 GTTGACCAT ACTTCTTGT ACATTTGTGT CTCCCTTCCC AACTAGACTG TAAGTGCCTT 120
 GCGGTCAGGG ACTGAATCTT GCCCGTTTAT GTATGCTCCA TGNNGGNCC ATCATCCTGC 180
 TTGNGCAAG TAGGCAGGNG CTCAATAAAT GTTTGTGCA TGNNGGNAA A 231

SEQ ID NO:2331

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02693

SEQUENCE DESCRIPTION:

GATCGCTAC AAGCCAGCCC CTGGCACCTG CTGCTACATC ATGAAGATAG CTGCAGAGAG 60
 CATCCCCAGT CTTGAGGCTC TCAATAGAAA AGNCCACAAC TTCCAGATNG AATGCTCTCT 120
 GCAGGCCAAG CCCGCAGTGC CTACGTCTAA GCTGGGCCAG GCAGAGGGGC GAGATGCAGG 180
 CTCAGACCCC TCCGGAGGGG ACCCGGNCTT CCTGGGCATG GCCGTGAACA CCCTGTNTGG 240
 CGAGGTGCCG CTCTACTACA TCTAGGACGN CTCCGGGTCA TGTGN 285

SEQ ID NO:2332

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02694

SEQUENCE DESCRIPTION:

GATCTAGAGG TTCCANTGCT ATNCTCTCTT CTTGTCTGAG AGCCAGGACC CTGGGGGAAA 60
 TAACGGGCAA AAAAGCACTT TNAAGACAGA TATAGTGGGA ATTNATAAAC GACTTGATAG 120
 AAACAGAAAT GAACTGTTTT ATTNATNCT CTGAGGACTC TGCTCATCAC CCANTAGTAC 180
 CATTTCTTTT CTCAGAATGG ATTCTTTCCC CTATCTATCT AATCATTAGA GATGTAGCTA 240
 NGAAATTACA TGTATGCATA TGTNTAATAT GTATATGTNT ATGTN 285

SEQ ID NO:2333

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02695

SEQUENCE DESCRIPTION:

GATCTTAAAG CTTTGAGCAC CTGCCATTTT GCCTTGCATC GTTCCCTCG TCATGCATTT 60
 CCACATATCC ACAACACAG AACGACTTTA GACAAGCACA TGTTACACCT GTGTTGCCAC 120
 AAGCAGTCAT TCTTGACGGC TCCAGTTTTT ATTTGACACT TGAGTTTAGT TTTCTCTTTT 180
 ATAAACCCAG TGAACCTCTG CACTGGCATT TGGATGTGTG TTAATGCTAT TTGTTTGTG 240
 TTTAAAGTAA AACCTTTCTC AGTTTGAAC TGTATTCTCT AAA 283

SEQ ID NO:2334

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02696

SEQUENCE DESCRIPTION:

GATCTATTAA AAAGGTTAAG AGGCCAGGTT ACCCACCANT CCTTGCACTG TNCTGACACT 60
TTCCCCAGGA GGAAAACAAG TACAAAGGTT ACGGTGGAGG CATAAGTAGA AGAGATTGTN 120
AAGAAGGGTA ATTCATGTNT CTTTGCTCTT NCTGCTTTAT GCCTCANTTT GGTTTAAAAA 180
CTTCTNTACT GGCAAATGGT GGTATTCAGT GTGGGATAGT GTCATAACTA ATTTGACAAT 240
TTATTAATGA TAAAATAACA ATAAATGTCT AGCTTTTACA AAA 283

SEQ ID NO:2335

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02697

SEQUENCE DESCRIPTION:

GATCACAAAA AAATCAGTCT TTAAGCATTT GCTTGGAAG GTTCTTAAN ATNAGGTTTA 60
TAATACAACC ATCTGTAATG TATCTNTCGN TTGANCTTGT GGGCCATACA ATTCATTAAC 120
TAGATGNATA CATTGTGGAC AGCATCCTCA CTACCCCTCT CTACTCACTC ACAAAGAACC 180
ATGATACACT GGAATGTTTT TNTNTGGAAT CCTCTTTCTA CTCTGTATT AAAATTTTNC 240
CCCACTTCAT GATTATATNC AAAATAACA ACTACATCAT AAA 283

SEQ ID NO:2336

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02698

SEQUENCE DESCRIPTION:

GATCAGCTTG CAGAGTCTTG CTTTtaggtt AGATACAAAC AAAGTAAATC ATAGTTGGTG 60
TAAATCCAGC AAAAAACAGC TGGCTTTGGA ATGGAGAACA CTACAATTCA AATTTGAAGT 120
ATATTCAGAA GAAAACTTTG GAATTAGCTT TACATTTGTT TGTAAATCTA AACAAATNTG 180
CAAAATTGGT CAAATGTAA GTNTATNGCA TTTTAAAGA TTANTGGTTC CTTTATGTG 240
CTGATTTCTT TGTATTCTGT TCTCTGCATT CATCATTCAG GN 282

SEQ ID NO:2337

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02699

SEQUENCE DESCRIPTION:

GATCTGTACC ACACCTCCG GCCAGCTGTC CTCCTGCTGA TGTTCCCTCAG TGTCTACAAG 60
GCCTTTGTA TGGAGACCTT CGTCCACCTC TGCTCGCTGG GCAGTTGGGC AGCTCTACTG 120
GCCCCAGCAG TGGTAACGGG GCTGCTGGCC CTCAGCACTT TGGCCCTGTA TGTGCCCGTT 180
GTCAATGTGC ACTCCTAGGC TTGGTGTCTC AGACATTTGA TGTACCTTTT CCCTGNCTCG 240
NTCCAGGTTT TTAGTGAAGT AAACAGGTAT TTTGGAAAGT TAAA 284

SEQ ID NO:2338

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02700

SEQUENCE DESCRIPTION:

GATCAACGAC AGCCTCCAGT TTCCACTTNG TGAGAGAACA AAGGAACCGG GGCATGCTCA 60
NCTATGGCTG CAAGCCNTTC AAGTGAAGCT GGGCACTTAC CCCCTTNATT CCATTCTCCT 120
CAGGATAACA GATTAAAATT CCAGAAGTGT GCACCTGTNG TNTATTCAGG AGATTNTCGT 180
TNTGCATAAA GAGACCACTT GAGGCCCTGT AAGCAAAGAC TAATTNGGTC TNAGTCAAAA 240
TCTTGGGAAT CTGATNAACT AACACACTCA AATGAAACTN 280

SEQ ID NO:2339

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02701

SEQUENCE DESCRIPTION:

GATCTGGAGC AGGAAGGCCT CGAGGCACAC AGGGGCTGCT GGCCGGCGAG TGGGCCCCAC 60
CCCTCTGGGA GCTGGGCAGC CTCTTCCAGG CTTTCGTGAA GAGGGAGAGC CAGGCTTATG 120
CGTAANTCA TAGCTTCTNC TGGCCTGGGG TGGACCCAGG ACCCCTGGGG CCTGGGTGCC 180
CTGAGTGGTG GTAAAGTGGA GCAATCCCTT NACGCTCCTT GNCCATGTTC TNAGCGGNCA 240
GNTTGGNTTT NNCCTTNAAT AAATNTGCTT TATTNCTCT TCAAA 285

SEQ ID NO:2340

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02702

SEQUENCE DESCRIPTION:

GATCGTAAAC TTGTTGATAA AGAAGATATC GACACTAGCA GCAAAGNAGG CTGTGTCCAA 60
CAGGCTACTG GCTGGAGGAA AGGGACAGGC CTGGNATATG GCCATCCTGG ATTGGCTTCA 120
TCAGAGGAGG CTGAAGGCCG GATGAGGGGC CCCAGTGTTG GAGCCTCAGG AAGAACCAGC 180
AAAAGACAGT CCAACGAGAC TTATCGAGAT GCTGTTCGAA GAGTCATGTT TNCTCGATAT 240
AAAGAACTCG ATTAAGNAAG GNGNCAAGTT CCATGGGATA CAACCTACCT CTTGTTTTGT 300
TTGTCTCTCC TTTTCTTTN 320

SEQ ID NO:2341

LENGTH:519

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02703

SEQUENCE DESCRIPTION:

GATCTGAAAG GAGCAAGGAA CAGCAAGGAA TTATTTTCCA GAATGACACC CGCAGCAGAA 60

TGTGGAGTG GAAATGATGG CTGGCTATGA AGAGGAGGTC AACGTGTGTG GTCTCCTCAG 120
 TCTCTGTGAG AGGGGTGGGG AGGTGGGAAA CAGGAATCCT CTGCAAAGCC CAATCTGCAG 180
 AGTCGAGACC CCTGGTGCTC TCTGCCCCGC TGCCTGGCAC TGGTCCTTTG CAGCCAGCCA 240
 CCAACGGCCC CCTTGCCCTT NCAGAGGCAG AAGCCTNCGT CTNAACCTGC ACCTCTGACC 300
 GTTNAGCAC CNTTGGGTTN TTACCANGTC CTANAACCTCT GANATTTNTT NGTTCTAAAA 360
 GGGGTTTCTA TTTCAACTTG NTGAGTTTGT NTTTTGGGNC CTTCCAATTT GGGNTACCTT 420
 GNTATNTTN ATGTTTTTAT AAATCCTTNA CTCTTGGNAN GTTTTAATTN TTTACAAAAT 480
 CAGGGATAAC TTTNGTTTNA ANACTGGTTT GAAGGAATN 519

SEQ ID NO:2342

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02704

SEQUENCE DESCRIPTION:

GATCCCAACT AATTTTACCG AACCTAAAC CCACAAAGAG GTTGTGTTGT TTATTGTTCA 60
 ATCTTCAGTT GTAAGAGTAA TTCTCTATTT TNATATTGAA ACATAATTAC TTGATAGCTC 120
 AGGGTCTACA TTTCATTCAA CTTTTTACAC CAAATTCTGC AGAGTGGTCA AAATGGAATA 180
 TTGGGGGCTG TTGTAAACAG AGGCTTAATT TTATTAGAAG TAGCCAGTTA TTTATTAAAG 240
 CATGATGTTA ATAAATAGG CATATTCTGA AA 272

SEQ ID NO:2343

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02705

SEQUENCE DESCRIPTION:

GATCTGACAT GATTCTTCC TGTCTGAAC TGTGGGGTGT GCACATCTCT ACTTGAGTCA 60
 GGTNNAGTA GAGGCTTAGA GACAGTTAGG TGAGAACAAC CAAATCTTA TCATGGTCTC 120
 AGTCANNATC ATTAGGGGGA ACTCTAGCCA AATNGTTTAA CTTCTGCCTG TGGAACTGGG 180
 GATTGGGTGG GCAGGAAAAG GTGATATCCA TTCTTTCTGA TAACTAGATG GTGCTGAGAA 240
 GCTTTTGAAT AAAAATTTG CTAAATGAGA AA 272

SEQ ID NO:2344

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02706

SEQUENCE DESCRIPTION:

GATCTTTCCC AGGCCGCACC ATTTCTNTCA CTCACATGGA CCCAAGATAN AAGAATGGCC 60
 AAACCCTCAC AACCCCTGAT GTTGAAGAG TTCCAAGTTG AAGGGAAACA AAGAAGTGT 120
 TGATGGTGCC AGAGAGGGGC TGCTCTCCAG AAAGCTAAAA TTAAATTTCT TTTTCCTCT 180
 GAGTTCTGTA CTCAACCAG CCTACAAGCT GGCACNGCT AACAAATCAG AAATATGACA 240
 ATTTAATGAT TAAAGACTGT GATTGCCACC AAA 273

SEQ ID NO:2345

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02707

SEQUENCE DESCRIPTION:

GATCCATGAA GCTGCCCTGC CCACGCCTCC CCTCCCTGTA GCAACACCTC TGGGTGTTTG 60
GAGTTTAGCT TTTGTGGGTT TGCTCTCCCT ATCCCATCTC CTGTACTACA CAGTTCATGG 120
CAGGGTGGGG AGNNGTGGGG TTGGTTCGGG TGGGTGAGGG TCTTTTCCT CTGTGTGCGA 180
TGTGTATTATC TGACAGNTCT CCGTCCCTAC TGGCCTTTCT CCTCGTCTTC ATATTGTAC 240
GGTACAAGCA ATAAAGACAC TCATTTCAGA CCAGAAA 277

SEQ ID NO:2346

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02708

SEQUENCE DESCRIPTION:

GATCTTNCTA GGAGGGAGAC ACTGGCCCTT CAAATCGTCC AGCGACCTTC CTCATCCACC 60
CCATCCNTCC CCANTTCATT GCACTTTNAT TAGCAGCGGA ACAAGGAGTC AGACATTTNA 120
AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGCCACGT GGGCTCATAT GGGGCTGGGA 180
GTAGTTGTTT TTCCTGGCAC TAACGTTGAG CCCCTGGAGG CACTGAAGTG CTTAGTGAC 240
TTGGAGTATT GGGGTCTGAC CCCAAACACC TTCCAGCTCC TGTAAACATAC TGGCCTGGAC 300
TGTTTTNTCT CGGCTCCCA TGTNGTCCTG GTNNCGGTTT TNTCCACCTA NACTGTAAA 360
CCTCTTCGAG GGCAAGGGAC CACACCCTGT AACTGTTCTG TGNCTTTTAA CAGGTTCTN 420
CCATTAATGC N 431

SEQ ID NO:2347

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02709

SEQUENCE DESCRIPTION:

GATCTTTTGT GTCTGGTTCC TTTCACGTTG AACGCTATTT TTAAGGTTTC TGCCTGTTGT 60
AGACCACAGT CACACACTGC TGTAAGTCTTA CCCCATCCTC ATCCCAGCT GCCTCCTCCT 120
ACTGTTTCCC TCTATCANN NGCCTCCTTG GCGCAGGTTT CCTGAGCTGT GGGATTCTGC 180
ACTGGTGCTT TGGATTCCCT GATATGTTCC TTCAAATCCA CTGAGNATTA AATAAACATC 240
GNTAAAAGAA TGACCTTCCC AAGGNAAA 268

SEQ ID NO:2348

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02710

SEQUENCE DESCRIPTION:

GATCAGAAAC CAGTCTCCTT CCCCCTAGTC TGGACTGGGT ATCCCCTCTT AAATNTTTC 60
 AAAGCAACAC AAATTTAATT CCGTCACAGA ACTTGCCACT CTGTGCTGTG TCCTCTGTTT 120
 CCTTGCCATC TTCCTCAATN AGCTGGAAGC CCATTGGCAG CAGGGACTGT TTCTTGTTCA 180
 CAGCTGCACC TCAGTGCTAA GCATAGTGCC TGGTAGGTAA TAGACTCCTT AAGTATTTGT 240
 TGAATTAATA AAGGATGNNT TTTTAAA 268

SEQ ID NO:2349

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02711

SEQUENCE DESCRIPTION:

GATCAGAAGC CATTNNATTT GGTAGGTGTG TCAGAAGGGA GAATGATGGN AGACGAACTG 60
 CTGGAAGAGG TCAGAAGATA GCCATGCTAA AATGCAATTA TATCCTCATG TTTATCCCAA 120
 ACTAATCTTG GACTTTTCCA CTCATTAGCT TTGTTNTGCC CTTGTTTCCC TTGAAGGTTT 180
 AAGTTCAACC ATATTCTGTC AACTGTTTCAG TTTCAGTGA ATCTTGATT TCTGGTTCAT 240
 TATAACAAAC TGTTGCTTA AATCCAAA 268

SEQ ID NO:2350

LENGTH:398

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02712

SEQUENCE DESCRIPTION:

GATCCGAGAA CGCTCTAAGC CTGTCCACGA GCTCAATAGG GAAGCCTGTA ATGACTACAG 60
 ACTTTGCGAA CGCTACGCCA TGGTTTATGG ATACAATNCT GCCTATAATC GCTACTTCAG 120
 GAAGCGCCGA GGGGCCAAAT NAGACTGAGG GAAGAAAAAA AATCTCTTTT TTTCTGGAGG 180
 CTGGCACCTG ATTTTGTATC CCCCTGTAGC AGCATTACTG AAATACATAG GCTTATATAC 240
 AATGCTTCTT TCCTGTATAT TCTCTGTCT GGCTGCACCC CTTTTCCNG NCCCCAGATT 300
 GNTAAGTAAT NGAAAGTGCA CTGCAGTGAG GGTCAAAGGN GAGGCAACAT ATTNTNNTT 360
 TCCATAATAA AACTTTCTTG GGGGNNATAC TTTTCAA 398

SEQ ID NO:2351

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02713

SEQUENCE DESCRIPTION:

GATCTGCAAG CATTTGCTCT TGTTCACACA TCACCTCTGG GATATTTTCAG CTGTTGTTTC 60
 CAAATGGCAA ATCATCAACT AAANGCAGTT GTTCAAGTT TTGTTCTGCA CTCCCACGAC 120
 TGAAGTTGTA GATTGAGCTG AATAACCATG GGAAGTGANC AAGCAAAGAC ACTCGATTGG 180
 AGTCAGTTGA ATATTTGTAC CCTCAGTGGA GCCCTTCTGG TCTTTCTTC CACTTCTGCA 240
 GAATTTCTCT TAGCAAATAC TTCTTTCTCC TTGCTTGCCT CCACCATGAT ATTTGAATAA 300
 GAGATGGCCA GAGGATAACA CTTGTCTCTT AAAAATAAG CTA AAAAGGA CTAGGAACC 360
 TTCAATTTGA GCAGTTGGTT N 381

SEQ ID NO:2352

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02714

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTTGGCCTC TCAAAGTGTT GGGATTGCAG GCGTGACACG TGCTCCTGGC 60
TTGAATTTTC TTATAATCCC ATGAAACCAT CATCAGAGTC ACAATAATNA ATTTATCTAA 120
TCTATCACCT TTGTATTCAC CTGGAGCCTT TATAAAGTTT TTNTCTATGC AGACAACCAT 180
TGATTTACTC TGCTGTATAA TACTTTCCAT TTTCTAGAAT TTTCTGACTG ATGTAATAAA 240
GTGTTTCCTC TTATAATCCC TGA AAA 265

SEQ ID NO:2353

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02715

SEQUENCE DESCRIPTION:

GATCGGGGGC TTGAACCCAG GTGGTCAGGC TCTGGAGCCC ACAATTGTNT TACCCACTAT 60
GCCCCTCTCT AGTCATGGTC CCAAGAGGG GCTTGGAGAC CCACTTAGCA GGTGAAAGCA 120
ATGGCAGCCT TCCTTATTTG ATTATGCACC TAAGAATAAA TGGTATTTGG GCATGTATTC 180
CCAAATATGTG TATATTTATT TATAAATATA TACAGATACT ATNATCTGTA TGTNAGTAAT 240
AAAGCTTAAA TTATTCCATT TTA AAA 265

SEQ ID NO:2354

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02716

SEQUENCE DESCRIPTION:

GATCGGCGGA CGCCCATCAC CGTGGTGAAG CAAGGCTTTG AGCCTCCCTC CTTTGTGGGC 60
TGGTTCCTTG GCTGGGATGA TGATTACTGG TCTGTGGACC CCTTGGACAG GGCCATGGCT 120
GAGCTGGCTG CCTGAGGAGG GGCAGGGCCC ACCCATGTCA CCGGTCAGTG CCTTTGGAA 180
CTGTCCCTCC CTCAAAGAGG CCTTAGAGCG AGCAGAGCAG CTCTGCTATG AGTGTGTGTG 240
TGTGTGTGTG TTGTTTCTTT TTTTNTTTN NNNAGTNTCC AAAAAAGCC CTNAAAAAAT 300
TCAGGGNCCT TGA AAAATTN TNTAAATGC CAGNNTTTGG GGAAATNAAA CCCANTAAAA 360
ACNTTTTGAG GGGTGNA AAA 379

SEQ ID NO:2355

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02717

SEQUENCE DESCRIPTION:

GATCACAAAA CAATTCTAAA ACCTAACTGT TTTTACCATT GAAATTTAAA TTGTGATAAT 60
 AGGTTTTTAAA TGTCTAGAAT GCAACTGATA GGCTTTTCTT GAACTGTTAG TTTTGTGAA 120
 GTAGTTTTTTT CATGTTTANN NNGTATTGT AAAAAAACA AAAGCAAAAA AATCCCAAA 180
 ACCCAGATAA CAACCAGAGC AAAACTGTTG TGCCTTCTAT TTATCTTTGA TTTCACTCTT 240
 GGCAATTGTT TAAAAAAA N 261

SEQ ID NO:2356

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02718

SEQUENCE DESCRIPTION:

GATCATTGGA GAGAGAATTG CACAGAAAGT CCTGAAGTTT AAAACACTTT ATGACCAGCT 60
 TTGGCTCGGG AGAGTGGGGC TGCTTGTA GA ACTGGAAGTG AATAACTTTT TCAAGCAATA 120
 TCAGTGAGTG GGTCCCATCG ACAGGGTTCC AGGACCTGGA ACACTTTAAC AGAAGGAAAT 180
 GCCGAAGCAG CTTGCACAGT NGCTTGACAG ACTTCCAAGN NGGCTGATTG TGGCTTCAAG 240
 ATGGAGCCTT GGAGTTGGN 259

SEQ ID NO:2357

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02719

SEQUENCE DESCRIPTION:

GATCTGGGAG TACACCAGGC AGCAGCTGCT CTCGNACGGA GATACCAAGC CATGATGTGC 60
 CNNNNTAGT GAACTGCTGC TGCTGTTCAG ACTTTTTTAA AAAAAACTAT TTGGACTAAA 120
 GAAACAGATT CTGAAATTTA TTGTGATAAT TTGTATTTCT TTTTCTTGC AATTTAATGC 180
 CAAAAGTTTG CCATGTGCCT TAAACATATT ACTATATATT TNCCCCTTA ATAAACACTT 240
 TTNGTTAAAT TGTATTCTTC CTTTAATAAA ATATTTTAAG CAATTGTGGA AATAAA 296

SEQ ID NO:2358

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02721

SEQUENCE DESCRIPTION:

GATCAGAATA CATGATGGAT GAAATTCCTT ACATGTTTTA GCAGAATNAA TTTGTTTAAT 60
 ATAATAAAGT TTGCTACTTA TCTGTATGTA GGTGCTAAA AANGATTTTC TTAATCAGA 120
 TTTTAAGCCA AATAACCATT TAACACTAGT ATTTGTTAAA TGGGTTATTT TNCTGTATTT 180
 GTATGTTTCA CTATAATAAG GGAATTAAGG ATAATGTGCA TTGAGAATAT TTGAAAANT 240
 AATTGACTCA AATN 254

SEQ ID NO:2359

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02722

SEQUENCE DESCRIPTION:

GATCAGTTAT AAGTAGCAGG CCAAGTCAGG CCCTTATTTT CAAGAACTG AGGAATTTTC 60
 TTTGTGTAGC TTTGCTCTTT GGTAGAAAAG GCTAGGTACA CAGCTCTAGA CACTGCCACA 120
 CAGGGTCTGC AAGGTCTTTG GTTCAGCTAA GCTAGGAATG AAATCCTGCT TCAGTGTATG 180
 GNAATAAATG TATCATAGNA ATGTAAC TTTT TTGTAAGNCA AAGGTTTTCC TCTTCTATTT 240
 TGTAACCTCA AAN 253

SEQ ID NO:2360

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02723

SEQUENCE DESCRIPTION:

GATCAATCCC AAGAATCCAT CAGCAACCTC AGACCAACCC AAGAAGATAA TTTAAATCTA 60
 TACTGCTTAT TGGTCAATAT ATTTGGTTCT AGTATTAATA AAGAAAAATG TTATTAAAT 120
 AGCATACATA GTAGTAAAT AAANTACANA AAGTGTGTTG ATTTATAGCT GTTTGAGATG 180
 ATAAAAGTGN AGCAAAGCCT GTTAAATCAT TGGAAGACTT GGANANTTAT TTTAAATAAN 240
 CAATTACATG TAN 253

SEQ ID NO:2361

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02724

SEQUENCE DESCRIPTION:

GATCTGCATA AACAGGGTTC CTGACCTCAC CGAAAAGACT AATGTGCCTT AGAACAAGCA 60
 TTTGCTGTGT TTTGTTAGCA CCTGGTTCCA GGACAGACCC TCAGCTTCCC AAGAGGATAC 120
 TGCTGCCAAG AAGTTGCTCT GAAGTCAGTT TCTATCGTTC TGCTCTTTGA TTCAAAGCAC 180
 TGTTTCTNTC ACTGGGCCCTC CAACCATGTT CCCTTCTTCT TAGCACCACA AATAATCAAA 240
 ACCCNACATA AA 252

SEQ ID NO:2362

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02725

SEQUENCE DESCRIPTION:

GATCTTCTCA GCCAGGAGAA GAGGGTGGTG TTTTCACGCG GGCAACTGCT CGCCGGCCTA 60
 CATGGGGTTA ATTCAAGTCT GCTGCGAGCA CGACTCCGCC CTTGGCACTG GCCTCCAGCA 120
 AGCCCTGTTT TCTTTGGGGT ACAGGGGAAC GGGATGGTTT AGACTTTCCT GCTCAGTGTG 180
 TAAAAAATGT AGCTAAAGCC ACTATTTTGT CTCTCCTTAA GCTGTTCAAT AAACCGGTTT 240
 CTCATTTTAA A 251

SEQ ID NO:2363

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02727

SEQUENCE DESCRIPTION:

GATCTGGAAC ACTCCCTGA CCCCTTCACA CCTGGCCCTC CCTGGGCTTA AAGCTCCTGA 60
TATTCCTCAT CCCCTTCCTT GTTTTCCAGA ATCGGTCGAG GTGGACGGTT TGGCCGTAAA 120
GGTGTGGCTA TTAACATGGT GACAGAAGAA GACAAGAGGA CTCTTCGAGA CATTGAGACC 180
TTCTACAACA CCTCCATTGA GGAAATGCCC CTCAATGTTG CTGACCTCAT CTGAGGGGCT 240
GTNCTGCCAC CNAGCCNCAG NCAGGGCTCA ATCTCTGGG GGGTGAAGGA GCAGCAGGGA 300
GGGGTGGN 308

SEQ ID NO:2364

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02728

SEQUENCE DESCRIPTION:

GATCGTAGAT TTTAACAAT CTGTATCTTT AACAAATCTG GGTGCNAGTG TNAGAGTGTG 60
AGCAGGGCTT GCTCCTGCCA ACCACAATTC AATGAATCCC CGACCCCCCT ACCCCATGCT 120
GTACTTGTGG TTCTCTTTTT GTATTTTGA TCTNACCCCG GGGGGCTGGG ACAGATTGGC 180
AATGGGCCGT CCCCTCTCCC CTTGGTTCTG CACTGTTGCC AATAAAAAGC TCTTAAAAAC 240
GCAAA 245

SEQ ID NO:2365

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02729

SEQUENCE DESCRIPTION:

GATCTAACCA ACTCAACTGA TAGAAAGCTG AATTGTTCCC AGTGGACAAG TGGTATTTGA 60
TGTTTAGCAG GTTTTTTGT TGTTATTTT TTGGTAAACT CTGTGGTAAA ATCTAAAATA 120
ATGTTAAAAC CCTAAAAGTA ACTATTGANT ATNCTGTAAT CTTAGACATG TATTTTTCAT 180
GCTAACCCCTT TGAAGAAATG TGTTCAGGT AGGAAAATAT AAAATTTTTT GGTTATTTGT 240
AAATTTAAA 249

SEQ ID NO:2366

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02730

SEQUENCE DESCRIPTION:

GATCATGCAT TGTTGAGGTG GTCTGAATGT TCTGACATTA ACAGTTTTCC ATGAAAACGT 60
TTTATTGTGT TTTTAATTTA TTTATTAAGA TGGATTCTCA GATATTTATA TTTTAATTTN 120

ATTTTTTCT ACCTTGAGGT CTTTGGACAT GTGGAAAGTG AATTGAATG AAAAATTAA 180
GCATTGTTG CTTATTGTTT CAAGACATTG TCAATAAAAG CATTAAAGTT GAATGCGAAA 240

SEQ ID NO:2367

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02731

SEQUENCE DESCRIPTION:

GATCTATACT GTGTGGTCAT GAGTTGTGTA TAGTTCATA ACACTGTATT TTNCTNCTGT 60
CAGTACCCTT AGGATACACT NTAAACACC TTAAGGTCTG ATGTTATGGC AACAACTAC 120
TTNTCAAAC CTAATAGGA ACCATGTAAT TNCTCAAAG TGATTGAACA GTTGCCAC 180
ACTTAGTTT TTGGTCTTAT GTAAACATT GGCTCAAAT AAAGNNCACA CTGATTATT 240
TNACTGNNA A 251

SEQ ID NO:2368

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02732

SEQUENCE DESCRIPTION:

GATCTGAAAA TTTATTCAC CCAGCTTCA CAATTAAGTC TGTATAAAT GTGGTACCTT 60
TTNGTACCTA TCCAGAGAAA CCTGTACATA TTCAATGTTA TCTAGATGTG ATTGGATAAT 120
GGAGAAAATN TATTATAAT GATTTNCAA TGGCATCAAT AACATTTAA TGATTTTGAA 180
GAAGTATTAT TTTACTACCC TATAAATGA ATCGAAAATA ATAAAGTTCT TAACATAA 239

SEQ ID NO:2369

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02733

SEQUENCE DESCRIPTION:

GATCAAATTA TCTTCAGCAT GTATATCTGG GGAAAAAGG TCCGAATTT CACATTTATA 60
TTTAAANTTC AATTTTTTAT ATTTAAANTT CAATTTTTTA GCAACAGCTG AATAGCTTG 120
CGGAGGAGTT TAATAGTTAC ACATTCATGC TAATATACAT TNCCTTTAA CATCCACAA 180
TTCTTAAAA GATTGAATCA GTANATTCA TTTCAGCTAA AAATGGAGTC TAATATATN 239

SEQ ID NO:2370

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02734

SEQUENCE DESCRIPTION:

GATCCACCCG CCTTGGCTC CCAGAGTGCT GTGATTACAG CTGTGAGCCT CCGTGCCAG 60
GCCAGTGTT TCTCTTAAAT GTGTTTCAAT ATGGTGGACA TTTATTGAGC ACTTGTTG 120

GGCGTTTCAA CAGGAGGCAC TGGTACGAAA AGTAGCTTGT TCTAGTTCAT ATATCATTG 180
CACTTTGCTT AACTTGTATA AGTACTTTTT ACTGTTAAT AAATATTTA TTAGAAA 237

SEQ ID NO:2371

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02735

SEQUENCE DESCRIPTION:

GATCAAAAAGA GCAAACAATA CTTTCTATGG CTTATCAGCA GGAGTGTTTA CCAAAGACAT 60
TGATAAANCC ATAACAATCT CCTCTGCTCT GCAGGCAGGA ACANTNTGGG NGAATTGCTA 120
TGGCGTGTA AGTNCCCAGT GCCCCTTGG TGGATTCAAG ATGTCTGGAA ATGGNAGAGA 180
ACTGGGAGAG TACGGTTTCC ATGAATATAC AGNGGTCAAA ACAGTCACAG TGAAAN 236

SEQ ID NO:2372

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02736

SEQUENCE DESCRIPTION:

GATCCNATTC CCGTTGCCTC AAAGCACCAG CTCTCTCGCT CCATCCTCCC AAGAGCCTCC 60
AAGGCGCCAT TGGCTTCTCG GGA CTCTGAG TCTGCCGCC TCTTTTCTG ACTCCAGTTT 120
CTTCTGGCT GAGCCAATGG GGCATGTTCT GTGACTGCAT TTGCATCTCG GATTGTGTTT 180
TTAAACCCAT TTTCTCCCAT ATTTGCCTGA AAAATATATA GAAACTGATA TACAAA 236

SEQ ID NO:2373

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02737

SEQUENCE DESCRIPTION:

GATCAGGCTG GTACAGGATG CCTTAAGGTG ATGAGAGGTG AGGGTGCATG AAGAATAATG 60
AGCACAGGGA AGAGAGAAGC AGGACAAAGT AGCAGATAAA ATGCCGGCAA AGCACAGATG 120
ANTGTTTTCA AGAAGCTCTT GTATTNTNT GCACAGTGTA AATATCCTTG CTATTTTCAGG 180
ATGGCGGCTG GCCTGCTCAG TAACATACAT GTTCCAAATA AAGATTTTGC ATGAAAGTAC 240
CTAAA 245

SEQ ID NO:2374

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02738

SEQUENCE DESCRIPTION:

GATCTGACTG CCTCCTTTCT CTGGCCTCTN CCCCCTNCCC TCTTCTCTC AGCTAGGCTA 60
GCTGGTTTGG AGTAGAATGG CAACTAATTC TAATTTTAAT TTATTAAATA TTTGGGGTTT 120

TGGTTTTAAA GCCAGAATTA CGGCTAGCAC CTAGCATTTC AGCAGAGGGA CCATTTTGA 180
 CCAAAATGTA CTGTTAATGG GTTTTTTTTT AAAATTAAAN GATTAAATAA A 231

SEQ ID NO:2375

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02739

SEQUENCE DESCRIPTION:

GATCCACTGT GAGCACCAAC CTGCTGCAGT CTCTTGGGCC CCTGCTGGCA GCTCTGCCAC 60
 GTCACCGNCT GCCTGGCTCC CACACAGCCA TGCATTGTCA CTCTGCCTCC GGGACCCNAG 120
 CTTNGGAGCN NNTGGGTCTG CCAGGTCCCA CCTCCTCTGT CCCCNATGCC ACAACCTGGG 180
 CTCCTGGCTA CAGCAGGGNT CCAGGGACTN CAAATAAATG TTCAGTGACT GGCAAA 236

SEQ ID NO:2376

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02740

SEQUENCE DESCRIPTION:

GATCGGTAC ACAGCTGTT CCACGATAAT TTTGTNTCA NAAGGGGAGN CTGACTACCA 60
 GGACCACTGG CCCCACTTCC AGCCCTCCA TTCTNAGTAC ACTCAGAGG GCTCTGGCAG 120
 GGTGAGGGGG TCTTGCCGT GCCACAGAGA GTAAAGGTCT AGCACACCCA TTGTGGAGAT 180
 ATTCATGGG GACANCCAG TGAATCACT TTGAAGTAA GTGGGATTTT CCAA 235

SEQ ID NO:2377

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02741

SEQUENCE DESCRIPTION:

GATCGNAGGC TACCCTGGCT CAGTNACCAG CTGCTCACTG TGTCTTCTG TGGTCTCAGG 60
 AGCTGCAGTT GTTGCTGTTG TATGAATAGA CGATAGTAA TTAGACTGGA TGTGTCTGTA 120
 CTGGCAGTNA TTTTCCAAC NCCTCTGTAT AAGCAATACA TTTGTAAATC ATGGGAATGT 180
 ATTTAATGGT AATTGCCTGT GGTGGTTGTA TCATGATTTA NTNNTATNAT GAGCTTTTGG 240
 CTTTNTNTAT NTN 253

SEQ ID NO:2378

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02742

SEQUENCE DESCRIPTION:

GATCTGGGGT CCCAGTGTCA TTGGTGAAGG CCTTGGGATT CGAGGCAGCT GAGTCCTCAC 60
 TGACCAAGGA TGCCCTTGTG CTTACTCCAG CCTCCTTGTG GAAACCCAGC TCTCCTGTCT 120

CCCAGTGAAG ACTTGGATGG CAGCCATCAG GGAAGGCTGG GTCCCAGCTG GGAGTATGGG 180
TGTGAGCTCT ATAGACCATC CCTCTCTGCA ATCAATAAAC ACTTGCCTGA AA 232

SEQ ID NO:2379

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02743

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGNAGGTTT CAGCCACGAG GCAGCTGNTC CCAGGACACT GAGGCCAAGA 60
GAAATGTAAC AGAGCCACAG CTCCACAGGC CTGCACTCGG AGTCTGGGGC CTCTGCAGAG 120
CCAGCAAGGG GAAAAGTATA ATCTGGGGGA CCTTCAACCA CTAAGCCTCT TGTCAAGGCC 180
CTCAGGCAGG CAGATGTGTC ACCCAAATAA ACAGTGATAT TGTCTCCAGA AA 232

SEQ ID NO:2380

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02744

SEQUENCE DESCRIPTION:

GATCTNAGCT GGACAGAGGA GGAGGAAGAG GAGGAAGCAA TGGGGGAATA GTGACACCAG 60
ACAGTTGATG TCTAGATAGG ACCTCAATNA TTCCNTTAGA ATCTNAGATA CCAGGATATT 120
GTTGGCCATG TGGCATCATT GAGCAGCAGG AGGCTGAAGG AGGNGAGAAC AAAATTGTCC 180
AAACCATGCT GTTTTTTCC CTAAATAAA TCTTGATTTC TTCAGTTTCA AA 232

SEQ ID NO:2381

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02745

SEQUENCE DESCRIPTION:

GATCTANGGA ACCAAACGGA AGGTTTTGAG GTGATGTAGG TCTTTCACAG TTAGCTTTGG 60
GGAATACAGA ATACTCAAAT AAAGTGCTTT GTTATTATTT CAGAGGGAAT GGCGATTGAA 120
ATGTTACAAC AGAGATTCTT TGGTGGTAGC TATTTNGGTA AAGGGTATAT GGNTATTTT 180
CTGTACATGT GAAATTATAT AGANNTAAAA GTTATATANA TTACATTGGC CAGAAA 236

SEQ ID NO:2382

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02746

SEQUENCE DESCRIPTION:

GATCAAGTTT AAGTCAGTCA GTTAAGGGGA GGAGAAGGAG AGGTTATACN TTCAGGGGGC 60
TACCAGACAG TGTCTCAAC TTGGTTAAGG AGGAAGAAAA CCCAGTCAAT GAAATTCAAT 120
GAAATTCTTG GAAACTTCCA TTAAGTGTGT AGATTGAGCA GGTAGTAATT GCATGCAGTT 180

TGTACATTAG TGCATTAAAA GATGAATTAT TGAGTNCTTA AAGATTAAA

229

SEQ ID NO:2383

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02747

SEQUENCE DESCRIPTION:

GATCTGATTT CAGATTTTTC CTGTATCTTT TTTACATACA TCAGAAAAAG AAATGTTTAC 60
 TATATTTTGG GTTCCATTNA TGATTGTTTT AAGCATTGTA CGNATAAGGA AACTAACAA 120
 TTAANTCAAT TAGAAAAGCA ACATAAAATT AANTGATATT TAGGAAATCA GTTATATGTG 180
 AGCTTGGGTA TTCAAATGTC ACAANTAAAA GGCNTANACC CATNAAA 227

SEQ ID NO:2384

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02749

SEQUENCE DESCRIPTION:

GATCAAATNA CCTGTGAAGG AATATTTTGC CTTTCATCCTA GCTGCTGGGG AAGCGGGGAG 60
 AGGGGTCAGG NAGGCTAATG GTTGCTTTCC TGAATGTTTC TGGGGTACCA ATACGAGTNC 120
 CCATAGGGNC TGCTCCCTCA AAAAGGGAGG GGACAGATGG GNAGCTTTTN TNACCTATTC 180
 AAGGAATACG TGCCTTTTCC TTAAANNCTT TCATTGATTG AAA 223

SEQ ID NO:2385

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02750

SEQUENCE DESCRIPTION:

GATCAGGGTT TNGGGTCTGT GTTCTTTCTA CCGTCAGCAC CTGTGTGGTC AATTCTGGAC 60
 ACTTCCCAGA GAAGTCTTTG AGTAGAGAAT CCTACTCAA TTTCACTGTA TATNTTAAGC 120
 ATTCCTCTCC TNTCCNTTG CCTNCCCTGT TGCCTTNTCT TCCCCTGATT TCTCCTCTGG 180
 TCATCTNCTC TCCCTNCTGC GTGTAAGCCA TGGGAAAGGG N 221

SEQ ID NO:2386

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02751

SEQUENCE DESCRIPTION:

GATCATGAAA ACAATGTAGG TAAAGTAAAG TATGTATTTG TCTGTGCTTG AAAAATATTG 60
 TAAAATGTGA TGTATTTGGA ATATATTTTG TGGTTTGTCT AATATTTATA AACACAACCTC 120
 GGGGTGAATT CACANTGAGT TTATTTCATT GAAATACTAG AGATATGGGG GCCATGTTAC 180
 TGTGCTTGGN GCCTTACCNT TTGTATAGTG AAATTTGCAN 220

SEQ ID NO:2387

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02752

SEQUENCE DESCRIPTION:

GATCCGCCTG CCTGGCCTC CCGAAGTGCT GGAATTACAG GCATGAGCCA CTGCTCCTGG 60
 CCTAAGATGT TTTTAAATA ATGTTTTTAA CTAAATTTTA AGAATGTTTT TAACTAAAGT 120
 TATTTATATT TGGAATAATT CGTTAATGAT TTGTGTCATT TCCCCAACCC CTTTTTAAAT 180
 TTGTGAATTT GAGGACTGGA TAAAAGATA AAAAGTTAAA 220

SEQ ID NO:2388

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02753

SEQUENCE DESCRIPTION:

GATCTAATTA ATAGCTGACC TCCCAAATCT GACAGGATAG ACACTGCCAC GTGCAAGGCC 60
 TGCCAGCCCC TCAGACGCAC AAAATGCGTA AAACAAATGC ATCCTTTCCT GGCTAAGCGA 120
 GTATTACTCT CTTAGCCCTG CACCAAACCT CCAATCTAGC CACATTTAAC TTTTCATTTC 180
 TTAGACCCGC AGAGTGTCTT CCTGCCTCTG AGCTGTGAGT GTTGTTCCT TTGCCCCGGA 240
 TGCTCTTGT TTTAATACCA GTTCAAGTCC CACTCTCTCA GTGAAGCACT CCCTTCCCCA 300
 CTNATAGCCT TTAGTGAACC CTCGTTTCTT GCTTCTTN 339

SEQ ID NO:2389

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02754

SEQUENCE DESCRIPTION:

GATCCATGTG CAGTAATGCC TGGTGGCTCC AGGTCTGCCC CGCCGTCCTG TGGGGCTGTG 60
 AGCTTTCCCA GCCTCCTGCC CGTGTGTGTG AATATCATTG TGCTCTCAGC TGCATTTCCT 120
 GCCCAGGCTG TTTGGCGCTG CCCAGGAATG GTATNAATTC CCCTGTTTCT CTTGTAGCCA 180
 GTTACTAGAA TAAATCATC TACTTTAAAA TCTTTCAA 219

SEQ ID NO:2390

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02755

SEQUENCE DESCRIPTION:

GATCTTGACC GGGAAAAGGG ACTTGAGAGA ACCTTCTAGG ATAATTTNAT TTCTTGATTA 60
 GGTGGTGGTT ACATTTGTAA AAATCATCGA CCTCTAAATT TAGGGTTTGT GCCCTTCACA 120
 TACCTTGTG TATGCATTTT GCCACTTGT TTTTCAAAGC AATGAAAAAG TATCACTGCA 180

ATTAGGTTTT AAATAAATTT GTTTCGTAA CATGTCAAA

219

SEQ ID NO:2391

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02756

SEQUENCE DESCRIPTION:

GATCTGGAAT CGGGGTCAGC GGGGCTACAG TCCTTCCAGG GGCTNTGGGG CAGCTCCCAG 60
CCTCTTCCCA TGCTGGTGGC CACCGTGTCC CTTGCTGCGG CTGCATCTTC CAGTCTCTCC 120
TCCGTCTTCC AGTGGCCGCT CTCTTTATAA GAACCCTGGT CATTGAATTT AAGGCCACC 180
CCAAGTCCAG AATGACCTCG CAAGACCCTT AACTCAAA 218

SEQ ID NO:2392

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02758

SEQUENCE DESCRIPTION:

GATCCATTTT TAATGGTTCA TTTCCTTTAT GGTCAATATA CTGCACAGCT GAAGATGAAA 60
GGGGAAAATA AATGAAAATT TTACTTTTCG ATGCCAATGA TACATTGCAC TAACTGATG 120
GAAGAAGTTA TCCAAAGTAC TGTATAACAT CTTGTTTATT ATTTAATGTT TTCTAAAATA 180
AAAAATGTGA GTGGTTTTCC AAATGGCCTA ATAAAAAN 217

SEQ ID NO:2393

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02760

SEQUENCE DESCRIPTION:

GATCAGAGGA ACTTTNAGGT GTCTGCCGGC TAACATTGTG TCATTCCTGG AGTCCACAGT 60
ACACGTCCCC TGCCTCAACA GGCACAGCTC TCACAAAGCT CTTCAAGCAT GGAAGTGGGA 120
GTTGTGTTGT ACTTCATGGC ACTCTGATGC CTGCTGTCTC AGTGTTTGGT TATTATGCAA 180
ACAAGTAATG TTTGAAATAT ATAATAGCAC TGGAAA 216

SEQ ID NO:2394

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02761

SEQUENCE DESCRIPTION:

GATCCATTTT TACCTGCATT TCCCAGAGGA CTAGCAGGAG GCAGCCTTGA GAAACCGGCA 60
GTTCCCAAGC CAGCGCCTGG CTGTTCTCTC ATTGTCACTG CCCTCTCCCC AACCTCTCCT 120
CTAACCCACT AGAGATTGCC TGTGNCCTGC CTCTTGCCCTC TTGTAGAATG CAGCTCTGGC 180
CCTCAATAAA TACTTCCTGC ATTCNNCTGN NNAAN 215

SEQ ID NO:2395

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02762

SEQUENCE DESCRIPTION:

GATCTAAATG TAAAGCAAA TGAAAAATGC ATGTNTTTT NCCTGTCAA CATGTATACC 60
CTTATGTATA GAGACCAGTA GTCACGTATG GTGACTGAAA CAGGATTATG TAATCCCTAA 120
AAAGCAGAAT ATGTAAAANT CACATGTATG CGTTTGGTTT AGGAATGTNC TTTTGTACTT 180
CCACTTGAAT AAAGGTGTGT TTGGTATTCT GAAA 214

SEQ ID NO:2396

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02764

SEQUENCE DESCRIPTION:

GATCCAGAAA TTCAAACCTC GAGAGCAGAT GGAACGACAT CTAAATCTNT GAATAAAGCA 60
GCAGGCCTGT CCTGGCCGGT TGGCTTGACT CTCTCCTGTC AGAATGCAAC CTGGCTTTAT 120
GCACCTAGAT GTCCCCAGCA CCCAGTTCTG AGCCAGGCAC ATCAAATGTC AAGGAATTGA 180
CTGAACGAAC TAAGAGCTCC TGGATGGGTC CN 212

SEQ ID NO:2397

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02765

SEQUENCE DESCRIPTION:

GATCTATTAA AGTGCAACT TTGCATTATA GAACTGAACA TGAAGTAAAT TGAGTGTTTC 60
TGAGTTTNC ATAGAAAATT TATGCTACCT CTCATCTTTT CACATACAAA TAAGCAACTT 120
TTAATGAAGG CTTAGGGTGN AAATTTTAAT TTTAGCACTT TACATTACAT GATGAATGGT 180
GAATATTAAA GGACTTTGAA CATTTTAATA AA 212

SEQ ID NO:2398

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02767

SEQUENCE DESCRIPTION:

GATCGAGAAG CTGCTCAATT ATGCACCCCT GGAGAAGTGA CCACGCTGAA ACCCACCAC 60
CCGCTGTGCT GACCATGGGC CCTGAGCGTC CTACCCCGAA TTCACGAGGC TGAGGCATCC 120
GGGAGCTGGC GTAATGCCTG GCCGAGTGT GTGTGTATCC CATACCCAC TCTGGAAGGA 180
ACCATCCAGT AAAGGTCTTT CAGAACCACT AAA 213

SEQ ID NO:2399

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02768

SEQUENCE DESCRIPTION:

GATCAGAGAT GCACCACCAA GCCAAGGGAA CCTGTGTCCG GTATTCGATA CTGCGACTTT 60
 CTGCCTGGAG TGTATGACTG CACATGACTC GGGGGTGGGG AAAGGGGTCG GCTGACCATG 120
 CTCATCTGCT GGTCCGTGGG ACGGTGCCCA AAGCCAGAGG CTGGGTTCAT TTGTGTAACG 180
 ACAATAAACG GTACTTGTCA TTTCGGGCAA A 211

SEQ ID NO:2400

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02769

SEQUENCE DESCRIPTION:

GATCAGACAC CCCTTCACGT GTATCCCCAC ACAAATGCAA GTCACCAAG GTCCCCTCTC 60
 AGTCCCCTTC CCTACACCCT GACCTGGCCA CTGCCGNACA CCCACCCAGA GCACGCCACC 120
 CGCCATGGGA GTGTGCTCAG GAGTCGCGGG CAGCGTGGAC ATCTGTCCCA GAGGGGGCAG 180
 AATCTCCAAT AGAGGACTGA GNACTGCTAA A 211

SEQ ID NO:2401

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02770

SEQUENCE DESCRIPTION:

GATCACCTAC TTACTGTATT CTACATTATT ATATGNCATA GTATAATGAG ACAATATCAA 60
 AAGTAAACAT GTAATGACAA TACATACTAA CATTCTTGTA GGAGTGGTA GAGAAGCTGA 120
 TGCCTNGNTT CTACATTCTG TCATTAGCTA TTATCNTCTA ACGGTTCACT GTATCCTTAC 180
 AGGAATAAAA GCAGCATNTG GNTAAA 206

SEQ ID NO:2402

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02771

SEQUENCE DESCRIPTION:

GATCGAATGA AGGATTCAAA ATTAACCACT CCAAGGGGGG ATTGAAGGAA GAACCACTCT 60
 TAATGGACAA AAAGAAAGAA AGGGGAGGGA GTAACAGGGA TATNAGCTCT AGCCGCCCAA 120
 GCTAGCAATG GCAACCCTTC TGGGTCCCCT TCCAGCATGT GGAAGCTTTC CTTTCGCTTC 180
 ATTCAATAAA CAGCTGCTGC TCAAA 205

SEQ ID NO:2403

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02772

SEQUENCE DESCRIPTION:

GATCTATAGA CATNAGGAAG GGAGTNAGAC GGCTCCTCCA CCATCCTCAG CCAGTGCAAC 60
CCATTCCCTC TNCTTCTCTC TCTCTCTCTC TCTCTCCCTC CCTCTCCTTC CCTACCTCT 120
CACCATCTTT NTGGCCTCT CTNAGGGTCT CTCTGTGCAT CTNTTAGGA ATCTNGCTCT 180
CACTCTCTAC GTAGCCACTC TCCTTCCCN ATTTNTGNGT CCACCCNN 228

SEQ ID NO:2404

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02773

SEQUENCE DESCRIPTION:

GATCTAGCTA GGGCTTTGTC TMTTCATCTT TGTGCATAAC TTACCTGTGA CCAGTATAGG 60
TGGGATATAC ATNTATCTTG CAGGAAATTC CCCAAAGCTC AGAGTCCAGT TCCTTCCATA 120
AAACAGGCTG GACAAATGAC CACTATGTGA GACCCCCCGG NTCGACTTCA GGGGTCAGTG 180
TTCCTGTCCC AAACCCNCAC ACAGAATNCT CTGNCTGNGG TTCATGTNGA AACTGAGCAA 240
AAACTANAGT ATCTNTCAAN ANGTGTAACN TGN 273

SEQ ID NO:2405

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02774

SEQUENCE DESCRIPTION:

GATCCACCTC ATATGTGAGT CCGTCCAAAA GATGTTACTG CTCTGGGTGG GCCAGTGTTT 60
TATATCGGTT ATACTAATT TCATTAAAG TATTTATTCT AAAATGCCTC TGAGAAACAG 120
TAAAAAATAA AAACAACAAG TTGTCTAAAA TGCAACAGCT TTTATAGTAA ATGTACATT 180
ATAAATAAAA TACTCAAATC AAA 203

SEQ ID NO:2406

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02775

SEQUENCE DESCRIPTION:

GATCTCTGAT GGATTGTG ACTCCTCTGT GGGAGAAAGG CTTGGTCTAC TGCAGGTGTT 60
AACGCTAAGC CAGGCTGGAG CTGCGGACGT NAGTTTCCTC AGCNCCTCCG TGTTGCTTC 120
GAACGTNACC TCGACGTCTG CTCTCCCTT CCCTTTAGCT GACAAATGTA CAGTNCTTGA 180
ATAAAAGTNA GTCTGACAGG AAA 203

SEQ ID NO:2407

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02776

SEQUENCE DESCRIPTION:

GATCTGAATG TGAATTTCTA ATTGTATCAG ACGTTAATGT TTAAAGCTA TAACAAAGTT 60
TAAAATTCT ACTTTTGTT TTNATTTAT TTAACTGTT CTTTATCTA TTAAATTGTT 120
GTATGTGGAT GGGGAAGTTT TGTTTCTCCT CTTAGCATTT GTTCTATAA CCAGAAATAA 180
AATTCTATAT TAAAGAAATG ACAA 205

SEQ ID NO:2408

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02777

SEQUENCE DESCRIPTION:

GATCCCAATC TGAGAAAAGG CAAAAGAATG GCTACTTTTT TCTATGCTGG NGTATTTTCT 60
AATAATCCTG CTTGACCTT ATCTGACCTC TTTGGAACT ATAACATAGC TGTCACAGTA 120
TAGTCACAAAT CCACAAATGA TGCAGGTGCA AATGGTTTAT AGCCCTGTGA AGTTCTTAAA 180
GTTTAGAGGC TAACCTACAG N 201

SEQ ID NO:2409

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02778

SEQUENCE DESCRIPTION:

GATCTTTAAC TGCCTGCTGA TAAGATATTG GGCCAACTGA AAATAGAAAT TGTCTTTTCT 60
TAGAAATATT TTAATGCTAA CTTGTAGTT TTCCTCAGAA AGCTAGTATT TGAAGCCATT 120
CGAGTTTAAG ATNCTCTAAT TTCAATAAAA TAGCTTCCAA ATATTTAAAA TGTAATAAAA 180
TATATGTTG ACACCTTAAA 200

SEQ ID NO:2410

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02779

SEQUENCE DESCRIPTION:

GATCAAAACG CTCCATCTTT TTACAGTGGC ATAGGAAGAC GGCAAAAATT TCCTAAAGTG 60
CAATAGATTT TCAAGTGTAT TGTGCCTTGT TCTAAAACCT TTATTAAGTA GGTGCACTTG 120
ACAGTATTGA GGTCAANNNN TATGGTGCTA TTTCANTNAG TCTAGGTTTA GGCCCTTGTA 180
CATNTTGCCC ATAACNN 198

SEQ ID NO:2411

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02780

SEQUENCE DESCRIPTION:

GATCTGCCCA TTGCTGAAAC TTCAGTACTT AAGTCCCCTA TTATNATTGT ATGGCAATCT 60
 ATCTGTCCAC TCAGAAGTTA TTATATTTGT TTTATATGAT TGAGCACTTC TGTTTTGGGT 120
 ATATATGTAT TTACAATNAC TATAACCTCT TGCTGAATTA ACCCCTNTTA CCATTATGTA 180
 ATAAACTTAT TTCCCAA 198

SEQ ID NO:2412

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02781

SEQUENCE DESCRIPTION:

GATCTTGAAT CACTTGACAG TGTTTGTTNG AATTGTGTTN GTTTTNCCT TTGATGGGCT 60
 TAAAAGAAAT NATCCAAAGG GAGAAAGAGC AGTATGCCAC TTCTTAAAC AGAACAAAAC 120
 AAAAAAGAA AATTGGGCTC TTTCTAATC CAAAGGGTAT ATTTNCAGCA TGCTTGACTT 180
 TACCAATNCT GATGACAN 198

SEQ ID NO:2413

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02782

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTAAACAG GAGCCCACAA GACGGTCTGC CAGATTGTCA GCGAAACCTG 60
 CTCCACCAAA ACCTGAACCC AAACCAAGAA AAACATCTGC TAAGAAAGAA CCTGGAGCAA 120
 AGATTAGCAG AGGTGCTAAA GGAAGAAGG AGGAAAAGCA GGAAGCTGGA AAGGANGGCA 180
 CAGAAAAC TG NTTCTGTAGA TAACGTGGGA GAATGANTTG TCATGAAAAT TTGGTGGTTG 240
 ATTTTTTTGT NTGCTTGGG ACAACTTTTA AANGCTATTT TTNCANGTN TTTTNGTNN 300
 TTGGTTTTTT TTTAGGGNT CTNCTTGTG GCATNCGGNA GTTTTTTANG GTTTGGNCN 359

SEQ ID NO:2414

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02783

SEQUENCE DESCRIPTION:

GATCCCAGGG GTGCACATGG GCCCCTTGGG TGTCTGAACA GAAGGGCATG GNAGGAAGGG 60
 CTGCACCCCT GCAGTCTTAC TCTGCTGGTG TAGCGGGCAG CTGCCCACTC CCACCCACC 120
 CTGCACCGCG GGCTCCTNAG TCGGCAGATT AAGCATTTNA TAAATTGTAT TTTAAATACA 180
 TGTTTTAAAC TTGTCAA 198

SEQ ID NO:2415

DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

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DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02785

SEQUENCE DESCRIPTION:

GATCCCATCC ATCAGCTCCC TTTCTTTTT CCCTTGAAGT GTTCTGGCCT CAGACCAACT 60
CTCTCCNNNN NTAATCTCTC TCCTGTATAA CCCACCTTG CCAAGCTTTC TTCTACAACC 120
AGAGCCCCC ACAATGATGA TTAAACACCT GACACATCTT GCANAAA 167

SEQ ID NO:2416

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02786

SEQUENCE DESCRIPTION:

GATCTGTGAT TGGNTGGTTA ATGGGAAACG GTTTTTNCT TTGGCTGCAG GTGTTCTGCT 60
GATATCAACA GCTTCCCTAT TTTNAATGCA GAAAACAGGG TCTGGGACAT TAGTCGTTAT 120
ATTNACTTG AAAAGAAAGA AACCAAGTGC GCTTTGCAAT ATTTATTACA CAAAGAACTT 180
GCTGCTGCAT TCTAAA 196

SEQ ID NO:2417

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02787

SEQUENCE DESCRIPTION:

GATCACAGAT TTCCCTGCCA GGGTGTCTGT GGTATCAGC TGCAGGCTCA GCTNGGGTCG 60
GCCGNTTCA ACAAGCCACT CTGTACCAG TGCCCTACCT TAGTGACGGG AGTAAGGAGC 120
TTCCTTCCC TCCATGTCAT TCCTNCCTGT TCCNTNCATT CCCCACAGC AAATAAACT 180
GTTGAATGCT CAAA 194

SEQ ID NO:2418

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02788

SEQUENCE DESCRIPTION:

GATCTTCCTA CGCACAACAC AAACGTCAGT TAATGTTCCA TCCATGCTGC TTAAAGAGCA 60
TTCCTGTCCT AGTAAATGG GCAAGTCCCT CTACCCCCA CCCTCACCTG GTATGCTTAC 120
ATTAATAGCT AAAGTCAATC CTGTAATGAA ATAAAGCAAG TGGTAGCTGT CTGGTAGCCT 180
CCACTACTGC AAA 193

SEQ ID NO:2419

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02789

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGA CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCCTG GAAAGGATGA ATTTACATCA TTTGACAAGC 120
CTATTTTCAA GTTATTTGTT GTTTGTGTTGC TTGTTTTNT TTTTGCAGCT AAAATAAAAA 180
TTTCAAATAC AAA 193

SEQ ID NO:2420

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02790

SEQUENCE DESCRIPTION:

GATCAGACCT CAATAATTTT ATACTGTAAT AAGCTCTTTG AATGTNTATA TTATTATTTT 60
TNACAATCAT TTCATTTTGT ATTTAATATC AATGGACTGA GTCTGATTCA GAAAATAATT 120
GTAATGTTCA TATTCAATAT CTTACAGTGA TACAGTTTGG TATTACATA TAAATATACC 180
GACATGACCA AA 192

SEQ ID NO:2421

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02791

SEQUENCE DESCRIPTION:

GATCAGGGTT TCAAGAATGA CTGCAGTGGG TTTTGAAAC AGACTTATCA TTATTGATT 60
GAGGTTTCCC AGAGATATAG TTCACAGTTA ATTGTGCGC TCTAATACAA CTGACCATT 120
AAAATTGAAC AAGTTTATTG TTTTGTAACA ATGTCAGTTG TTAAACCTTG NCATTTCAAT 180
TAAAACATGA NTTGTAGTTA TAACTCANTG CAANTNCAAC AGTTGTATT GNGTTAANT 240
TATTTTCACA CGTNCTTTN TTTTCATGGAN NNCCCN 276

SEQ ID NO:2422

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02792

SEQUENCE DESCRIPTION:

GATCTTTTAT TTTCTCATT TTTATAACTT CAGACTTGGG CCCCTGTTC TTTCTTTCCC 60
ATTAAGTTGA GTGACCTGTG TGAGAGACAG ACAGATGCCC CACGAGGATG GCTGGACAAG 120
GACTTTTACT TTTTATTACA TAAAAATATT AAAAAATAAA TAAAAAAAAT AAAATTTTAA 180
ACTAACTTAA A 191

SEQ ID NO:2423

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02793

SEQUENCE DESCRIPTION:

GATCGGAATG CGGGGTCGAG AGCTGATGGG CGGCATTGGG AAAACCATGA TGCAGAGTGG 60
CGGCACCTTT GGCACATTCA TGGCCATTGG GATGGGCATC CGATGCTAAC CATGGTTGCC 120
AACTACATCT GTCCTNCCC ATCAATCCCA GCCCATGTAC TAATAAAAGA AAGTCTTGA 180
GTAGTCAAA 189

SEQ ID NO:2424

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02794

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA AAACGCCTGG AATGCAGTGG CACAATCACT GCTCACTGCA 60
GCCTTGACCG TNTGGACTCA AGTAATTCTC TACTTCAAC CTCCCAAGTA GCTGGGACTA 120
CAGTCATGCA CCATCATGCC TATAAAGATA ATTTAATTTA TAATAAATNA TTTATACAAA 180
CAATAAA 187

SEQ ID NO:2425

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02795

SEQUENCE DESCRIPTION:

GATCAATCGT GCATCCTNAG TGAACCTCTG TTGTCCTCAA GCATGGTCTN NNTACTTGTG 60
AACTATGGTG TTCAGTTTGG CCTCTGTTAG AAATTCACAC TGTGTGTGTA ATNATGTGGA 120
ACTCCTCTAA AANTTACAGT ATTGTCTGTG AAGGTATCTA TACTAATAAA AAAGCATGTG 180
TAGNAAA 187

SEQ ID NO:2426

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02796

SEQUENCE DESCRIPTION:

GATNCGTTT TNAACCCGNT CCTGCCCCAC CTGCCCTATA GTTATGGCCT GTGTTCTGCT 60
CTCCTGGTCC CAGTGCACCG TCTGCTCTGT GAACTCCTCC CACCAGGCCC TTCTTACCCC 120
ACGCGTGTCT GTCCCNCTCG TTCTGTAGCG GGNGGTACAT AATAAAACAA TGGNGTGGNG 180
ACAAA 185

SEQ ID NO:2427

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02797

SEQUENCE DESCRIPTION:

GATCTATGTT TTCTGAAAAT AATTGGTTAA TGGAAGTTAT CTAATATATT TNAACTGTTC 60
 CTGTTAAAAA CAATAGGCTT CAAGATGACA TAACACCAAA TCAAAAATNA CCAAAGGAAT 120
 CATTTTGTTC GTTAGATTG TAATTTAGCA TCATTGGCAA TAAATCTACT CAAACGTAA 180
 A 181

SEQ ID NO:2428

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02798

SEQUENCE DESCRIPTION:

GATCCCAAAG GGGTTGGAGG CAGGGAATAT TTGAAAATTC AGACTGGAAT TCCAGGCCAA 60
 AAGCTCAAGA CCACCAGCCT CTCCTCCTGC CTGGAAAAAT AAGCCTTTGT GAAAGACTGA 120
 TTTACCATGT ACAATTGTGA TTGTGAACGT TGTTGAGTAA ACCTCCAGAC TTTCTCTAAA 180

SEQ ID NO:2429

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02799

SEQUENCE DESCRIPTION:

GATCATAAGT NAAAAATGTA TTAAATATAC CTAACCTACC AAACATCATA GCTTAGCCTA 60
 GCCTGCCCTTA AACATGCTCA GAACACTTAC ATTAGCCTAC AGTGGGCAAA ACTATCCAAC 120
 ACAAAATCTA TATTGTAATA AAGTTATAAA GANTTTTGAA TAAAANTTCA ATATTTGANG 180
 TACAAA 186

SEQ ID NO:2430

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02800

SEQUENCE DESCRIPTION:

GATCTGGTGG AGGGAAGTGA AGATGAAGGC CTCTCAGGCA CCATGGATGG NATGGGTGTG 60
 TGTNAAGGGG GCAGGGTCCC CAGGAGCTGC CCCAGGTCTG GCTNGACAGT TGCACGGNAA 120
 GTCCTGTTTG TAAACTCAAC GTTCCACGN CTTTCCATT AAACCTTACC CCAAATCAAA 180

SEQ ID NO:2431

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02801

SEQUENCE DESCRIPTION:

GATCTATTTT TCCTAAAACA TTCCCCTCCC CACTCCTCTC CCACAGAGTG CTNNNTGTT 60

CCAGGCCCTC CAGTGGGCTG ATGCTGGGAC CCTTAGGATG GGGCTCCCAG CTCCTTTCTC 120
CTGTGAATNG AGGCAGAGAC CTCCAATAAA GTGCCTTCTG GGCTTTTCT AACCTTTAAA 180

SEQ ID NO:2432

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02802

SEQUENCE DESCRIPTION:

GATCTTCACC AATGGCAAGT GGAATGACAG GGCTTGTGGA GAAAAGCANN TTGTGGTCTG 60
CGAGTTCTGA GCCAACTGGG GTGGGTGGGG CAGTGCTTGG CCCAGGAGTT TGGCCAGAAG 120
TCAAGGCTTA GACCCTCATG CTGCCAATAT CCTAATAAAA AGGTGACCAT CTGTGCAAA 179

SEQ ID NO:2433

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02803

SEQUENCE DESCRIPTION:

GATCTAAAAA TTCAATGCAA ATATCTTTTA TTTGGTAGTT TTGTCTACAT ATTTNATGCT 60
CTAGCATGTG CAATATATCT TTGTAAAGCA CGATGATACA AATCTGGTGC CAGTGTATA 120
TTTNGCATAA CATATTTGTA ACAGCATAAA ATATTGTTG ATGATTTCAG TGGGATTTTG 180
TCTATAATGT TTTCTTATGT AAATNGGAGT TGAATGACTC TGGTAAATGT CATGACTGTA 240
AAANTGGGGA AANTGACTTT NAGTTCAGT AAN 273

SEQ ID NO:2434

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02804

SEQUENCE DESCRIPTION:

GATCCAAACT AATTTTACAT TTAATAAAAA AGTTAAACTA AACTTCTTTA CTGCTGATAT 60
GTTTCCTGTA TTCTAGAAAA ATTTNACAC TTTCACATTA TTTTGTACA CTTTCCCAT 120
GTAAAGGAT GATGGCTTTT ATAAATNTGT ATTCATTAA TGTACTTTA AAAATAAA 178

SEQ ID NO:2435

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02805

SEQUENCE DESCRIPTION:

GATCTAAAT AAATATTGTT AAAAGCATT CCTCTAGGGA ATGGGATTTA GATTAAAAA 60
GGGTGGGATG GGAACTGTG TTTTTCATT TAAGTCCTC TGTACTANNT AATTGTNAC 120
CTTGTGCATG TATTACTTTG AAAAAATTT TAATAAACCC AAATAAANT CTAAA 176

SEQ ID NO:2436

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02806

SEQUENCE DESCRIPTION:

GATCANCCCT CAAGGGCACA TGCCAAGGGC AGAGCAGCCC ATNTAGACAG CTTCGNAGGG 60
CATGGGGGTG TAGGGAGTTC GGGGTAGCTC CTCATTAAT ATTTGTNGGN TGAGTAAAGG 120
GGTGAGGCTC AGTGGCAGGT ACCTCTNCAA TNACAAGCTG CCNCCCCTCT ATGTN 175

SEQ ID NO:2437

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02807

SEQUENCE DESCRIPTION:

GATCGGCAGC AAGAGTAAAG ACACAGCTCC AGAGGCCAC ACTGTGGGGT CTGGGCCCTG 60
CCTTAGGCAG CCCCCCTCT TGGCCCCCTC CTGTCAGGCC CAGGGCTTGG AGTGAAAGTN 120
ACTCTCAGGT GGTGGGGTGG GGAATGTGAA TAAACATGAT TTCTTGCCGG GCAA 175

SEQ ID NO:2438

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02808

SEQUENCE DESCRIPTION:

GATCCCTTCA CTGGCCCCCT CGGGAGNCCT GGGTTGGACT CAGGGNCTCC NCCAGCTGGG 60
GNGGNGGACC GCAGCACCTA TCTGAGCAGT TAGAGCGTCT TTTTTCAG ATTGTGTACA 120
GTAGATTATT TATTTGTNA TTTTGGAATA AAATTTATT TATGGCTTAG GAAA 174

SEQ ID NO:2439

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02809

SEQUENCE DESCRIPTION:

GATCTTGTCT GAAATGCTAG TTTCTGACTA CAAAACTAC AGGACATAGT AGATATGCTC 60
AGTAGAGCTG CTTAAATAA TTCCCTTTT TTTTCTGTG AATTCTGTTA CAAAACCAGG 120
TCTGTGTTAT AATAGAAANC AACTTATGA ATAAAAATCT TAAAAATTA AA 172

SEQ ID NO:2440

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02810

SEQUENCE DESCRIPTION:

GATCAATGTC CCTGGTTACC TATGTGTTTG AATTATCTTC GTGTTACAGG TGTTTAATGA 60
 TTTTNCCTCT TCTAGCTTAT TTGTATTTC CCTGTTTTTC TTAAATNAA CATGGTTACA 120
 CTNTGTTTCA GCAACTGTAT AAATTAAACA CAGATNATTA CTA CTGCTAA A 171

SEQ ID NO:2441

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02811

SEQUENCE DESCRIPTION:

GATCGTAAAA TTTTAAGCAC TAAAAATTTT TTCATAACCT TTCATAATAA AGTTTAATAA 60
 TAGGTTTATT AACTGAATTT CATTAGTTTT TTAAGAGTGT TTTTGGTTTG TGTATATATA 120
 CATATACAAA TACAACATTT ACAATAAATA AAATACTTGA AATTCTCAA 170

SEQ ID NO:2442

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02812

SEQUENCE DESCRIPTION:

GATCTACTTT GAATCCACA CTCTCATTAA TAAATTGANT AAAAGGGAAT ATTTGGCAC 60
 CTGATATAAT CTGCCAGGCT ATGTGACAGT AGGAAGGAAT GGTTCCTT AACANGCCCA 120
 ATGCACTGGT CTGACTTTAT AAATNATTTA ATAAATGAA CTATTATCAA ATAAACGTA 180
 TGATTCACTC CTAAA 196

SEQ ID NO:2443

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02813

SEQUENCE DESCRIPTION:

GATCAAATTT TTTCTTGCA ATNATGTGAT GAGTTGCCAA ATAATTGANA TTATTTTAAA 60
 ATGTTTTGTT CATATTCTTG TTTTATAATT AAAATTTACA TTCAGTGTGT ATGGGTTTTT 120
 TTTTNATTTT NACTCTTAAT GTAAGGTGGA TATTNCTGTN ATTTTACATG GTTCTTACT 180
 GAGATTTTAT ATATAANTNA TAAAANGTTT ACCAAA 216

SEQ ID NO:2444

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02814

SEQUENCE DESCRIPTION:

GATCGTTAAT GCCCTTGAAG TGGTTTTTGT GGGTGTGAAC AAATGGTGAG AATTGAATT 60
 GGTCCTCCT ATNATAGTAT TGAAATAAAG TCTACTTAAT TTATCAAGTC ATGTTTCATGC 120

CCTGATTTTA TATACTTGTA TCTATCAATA AACATTGTGA TACTTGATGT AAA 173

SEQ ID NO:2445

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02815

SEQUENCE DESCRIPTION:

GATCAGCTCC GTGGGGCTGG TTTTGGTCCA CAGCATAACA GGCAGTGCCT CCTTACCTGT 60
GAGGAATGCA AAATAAGCA TGGATTAAGT GAGAAGGGAG ACTCTCAGCC TTCAGCTTCC 120
TAAATTCTGT GTCTGTGACT TTCGAAGTTT TTAAACCTC TGAATTTGTA CACATTTAAA 180
ATTTCAAGTG TACTTTAAAA TAAATACTT CTAATGGAAC AAA 223

SEQ ID NO:2446

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02816

SEQUENCE DESCRIPTION:

GATCTGTAC TTTGTATAAA AACAAGAAAC GATTAGTTCA TTAACTTTT TCTTTACCTT 60
CTGGTAGTAA AAATAGATAA AATAATTCCG TNTCAACTAC TGTGTGTAAA AAGCCTGTAT 120
CATATGTAAC TGGGACTTTT GTAAATAAAT NTTTTGCGC TCTGCAAA 168

SEQ ID NO:2447

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02817

SEQUENCE DESCRIPTION:

GATCATAAAA TGTATCTTTT CCATGGCCAA CAAGNGCAT CTNTTATAAA TGCATAATAA 60
CCCAGTTNGT ATCAAAGGGT ATCGACTTAA GTGAAATTC AACATGCTGT TACTTTTCC 120
TTTAAATGTA ATNCTGTTTT CCAAATAAAT GGGGGAGACA AATGGAAA 168

SEQ ID NO:2448

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02818

SEQUENCE DESCRIPTION:

GATCTGTGCA ATAAAGTGTT TGCAGTCTTA TTATTCTCTA AGAAATTCCT TATGGACGTC 60
ATAATTGTTG TATATTGAAC AAAATATTTA TACTTATGCA GTTGCATAAC ATTGAAATAA 120
AAATTTAGCA TGAAA 135

SEQ ID NO:2449

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02819

SEQUENCE DESCRIPTION:

GATCCTGCCA GAAAATTTC AAGACAGTAG ATTGAAAAGG AAAGGCTTGG TAAAAAAGGT 60
TCAGGCATT C TAGCCGAGT GTGACACAGT GGAGCAGAAC ATCTGCCAGG AGACTGNGCG 120
GCTGCAGTCT ACAAACCTTG CCCTGGCCGA GTGAGGTGTA GCAGCAN 167

SEQ ID NO:2450

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02820

SEQUENCE DESCRIPTION:

GATCAGNAGG CATCACTGAG GCCAGGAGCT CTGCCCATGA ACCTGTATCC CACGTACTCC 60
AACTTCCATT CCTCGCCCTG CCCCCGAGC CGAGTCCTGT ATCAGCCCTT TATCCTCACA 120
CGCTTTTCTA CAATGGCATT CAATAAAGTG CACGTGTTTC TGGTAAA 167

SEQ ID NO:2451

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02821

SEQUENCE DESCRIPTION:

GATCCGTTT CTTTTGCTC GCCCCTGTTT TTTGTAGAAT CTCTTCATGC TTGACATACC 60
TACCAGTATT ATTCCCGACG ACACATATAC ATATGAGAAT ATACCTTATT TATTTTGTG 120
TAGGTGTCTG CCTTCACAAA TGTCATTGTC TACTCCTAGA AGAACCAAAT ACCTCAATT 180
TTGTTTTTGA GTACTGTACT ATCCTGTAAA TATATCTTAA GCAGGTTTGT TTCAGCACT 240
GATGGAAAT ACCAGTGTTG GGTTTTTTTT TAGTTGCCAA CAGTTGTATG TTTGCTGATT 300
ATTTATGACC TGAAATAATA TATTTNGTNC TTCTAAGANG ACATTTTGTT ACATAAGGGG 360
ATGGCCTTTT TTATACAANG GGAATAANAT TNTGGGCATT TCCTATGGAA AAA 413

SEQ ID NO:2452

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02822

SEQUENCE DESCRIPTION:

GATCTGTNAT TGGCATCTTG GTTCTACCTT TTATCAGATG TTGTTGCCTT GTGCAAATNA 60
CATTTTCTCT GAGTCTCCAT TTTCTCATTT ATAACATGCG GAGAATAATA CTTATATTTG 120
TGGTAGTAGT GTGAACATTA AAAAGATAAT GTATGTGAAG TACAAA 166

SEQ ID NO:2453

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02823

SEQUENCE DESCRIPTION:

GATCCATGCT AATATTGTAT TTTTNTTAA AACATAGCTT TCCTGTAATT TAAAGTGCTT 60
TTATGAAAAT ATTTGTAATT AATTATATAT AGTTGGAAAT AGCAGTAAGC TTTCCCATTA 120
TAATATATTT TGNTATACAA ATAAAATTG AACTGAAGTC TGAAA 165

SEQ ID NO:2454

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02824

SEQUENCE DESCRIPTION:

GATCTTGTTA GAAGGCAGTA GGTCTGGGGT GGGGCCTGAG ATTCTGCATT TCTAACCAGG 60
TCCTGGGAGA TGCTGATGCT ATCGAGCCAC AACCACACTT TGAGTAGCAA GCCTCTGGCC 120
TATCCTTANN NNTTGTAATA TTAAAATGCT GCCTCTCAGT CAAA 164

SEQ ID NO:2455

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02825

SEQUENCE DESCRIPTION:

GATCAATGCC AGATTTTNTT NTGGGGTAA GTTAGCTGAA GTCATTAAAA GATGGAAAGG 60
TGGGAAAATN CTTGATATT TGATGTCATT GTATCCACAT TTNTTGTAAG ACATATTGCA 120
TACCANTTAT AATNATATCA ATTAAAGTTG ATAAAAGCTT CAAA 164

SEQ ID NO:2456

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02826

SEQUENCE DESCRIPTION:

GATCCCTTCT GCCCTGGCAG AATGGCAGGG GTAATCTNAG CCTTCTNCAN TCCTTTACCC 60
TAGCTGACCC CTTACCTCT CCCCCTCCCT TTNCCTTTGT NTTGGGATTC AGAAAACTGC 120
TTGTAAGAGA CTGTTTATNT TTAATNAAAA ATATAAGGCT TAAA 164

SEQ ID NO:2457

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02827

SEQUENCE DESCRIPTION:

GATCCAGAAT ATTTTCATTT AAAGCTCAAC CATTAATTGG AACATGGTGA AACATTGTAC 60
ACATTGTAAA AGTAGGGAAC AGTACAAAAG AATGGAATCA AATACTATAT TATGTGAATA 120

ANCTAGAGTG ATTTTGAAT TTCACTCTCT TCACCCCTTA AA

162

SEQ ID NO:2458

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02828

SEQUENCE DESCRIPTION:

GATCAAAAAC CTCTATAGTA GCCACTAGGG CAAAAACTGT GTGTATGTGT GTGTGTAAGT 60
GTGTGTACAC TGTTCATAT GGTTCATAT GTTACCAATA GCCACATGTG ACTATTTAAA 120
TTCATTGCAA TGNAATAAAA TTAAAGGTAT ACTAGCTCAA A 161

SEQ ID NO:2459

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02829

SEQUENCE DESCRIPTION:

GATCTTCACC TCTCTGCCCTC CCTACTGCCC CAACATAGCC TTGAGGAGGN TTCTCAGCCA 60
CCAAAGGGTT CTGGCCCCTT CTCACTCTCC TCTCCTCTCA GATGGAAGTC TGGTTATAAT 120
GGTGTTAGTT ATCGAATAAA AACGACTTCA GAATGCAAA 159

SEQ ID NO:2460

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02830

SEQUENCE DESCRIPTION:

GATCAATTTA AAATATTTNA TTTCTTAAAA GCCTTTTTTG CCTGTTGTAA TGTGCAGGAC 60
CCTTCTCCTT TCATGGGAGA GACAGGTAGT TACCTGAATA TAGGTTGAAA AGGTTATGTA 120
AAAAGAAATT ATAATAAAAG GGATACTTTG CTTTTCAAA 159

SEQ ID NO:2461

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02831

SEQUENCE DESCRIPTION:

GATCTATTTA ATTTGAGGTT GATGTTCTAT CCAATGGCCG AAGATAGCAG CAGGTTTTTT 60
TTTTCATATG TTGATTTGTT TCATTTGGAT TTTTTTTTNA TNATNCTTNA TTGCTTTTTT 120
TTTNCCTCAT CCTGTCTTG NGATTTNCNG GCATGTTN 158

SEQ ID NO:2462

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02832

SEQUENCE DESCRIPTION:

GATCTGAAAT GTGATGATTA TTGGAATGCA TAAACATTGA CGTATTTTGG AATGTATTAA 60
 AACTGAAATG GATAAAAATT AGTATATATG TTTATTTTGT TCTATCTCCT TTGGTTGTAT 120
 TTTTCTCTGC AGTATTAAAC ATTTGGAAGA GACTAAAGGT ATGCAAAANT AATGTCTTAT 180
 TTTCATTATG TGTGCTTCCA TTGACACAT GGGAAATTAG ATTAATTCA CTATTAANTA 240
 GNACTTTATA CAGAAA 256

SEQ ID NO:2463

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02833

SEQUENCE DESCRIPTION:

GATCTTGTGT CTA CTCTAGG ACTGGGCCCG AGGGTGGTTT ACCTGCACCG TTGACTCAGT 60
 ATAGTTTAAA AATCTGCCAC CTGCACAGGT ATTTTGGAAA GCAAAATAAG GTTTTCTTTT 120
 TTCCCTTTC TTGTAATAAA TGATAAAATT CCGAAA 156

SEQ ID NO:2464

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02834

SEQUENCE DESCRIPTION:

GATCTTCTCC TTTGTGAAGC ATCCCTCACC ACTACTACTG TGATGGGTCG GGGCCTTTCA 60
 TCTGTTTTTC CACAGCATCT ATGCTTCTNT NCACTGTATC ATTTATCAAA TTGATNNTTN 120
 CTGCGTCCTG TAAAAACAN NGAGTACCTT AAGAAA 156

SEQ ID NO:2465

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02835

SEQUENCE DESCRIPTION:

GATCTGCATT TATCATGAGT TCCTTTTTTT TTAACTTT ATTTTGGGA AAGTAACACA 60
 TGANGTAGTT CAGTCATGTC AGGTTTGTCT GGGGTGGANT GGACCAGTCA GGTAGTTGAA 120
 AGTTTTTTTT TAGNGATGAA AAGCTTGTA NCNCTGTAA ANCATGCTGN ATTTGAAATN 180
 CATCTGTTNA N 191

SEQ ID NO:2466

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02836

SEQUENCE DESCRIPTION:

GATCCACCCC CTGCCACAA AAAATTGCTC CTAAGTCCAC CGCCTATCCC AAACCTACAA 60
 GAACTAATGA TAATCCCACC ACCCTTTGCT GACTCTTTT GGACTCAGCC CACCTGCACC 120
 CAGGTGATTA AAAAGCTTTA TTGTTACAC ANAAA 155

SEQ ID NO:2467

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02837

SEQUENCE DESCRIPTION:

GATCCTAGCA AATTTGCCCA ACCANCTTTA CTAAAGGGGG AGGAAGGGAG GGCAAAGGGA 60
 TGAGAAGACA AGTTTCCCAG AAGTGCCTGG TTCTTTTAC TTTCCCTTT GTTGTCGTTN 120
 TTGTAGTTAA AGGAATTTAA TTTTAAAAA GAAA 154

SEQ ID NO:2468

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02838

SEQUENCE DESCRIPTION:

GATCGGGCCT AGCCCGGCAA CACTAATGTA GAAACCTTTT TTTTACAGAG CCTAATTAAT 60
 AACTTAATGA CTGNTACAT AGCAATGTGT GTGTATGTAT ATGTCTGTGA GCTATTAATG 120
 TTATTAATTT TCATAAAAGC TGGAAAGCAG CAAA 154

SEQ ID NO:2469

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02839

SEQUENCE DESCRIPTION:

GATCACCCGG GGCTGTCTGC ATACAGACTT CTCAGGGGAG TTCTCAGCTT GGACCCTTAT 60
 CTCCCAGAA TCCTGGAACC TGCTCCTTCT GCTCTCGTGA CTGACTGTGT TCTCTATGCA 120
 ACTTCCAATA AAACCTCTTC ATTTGAAAGG AAA 153

SEQ ID NO:2470

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02840

SEQUENCE DESCRIPTION:

GATCTTAAGC CCAGCTCTGT TCTGCCCCG CTTCTCTCTG TTGATACTA TAAATTTTCT 60
 GGTTCCTTG GATTAGGGA TAGTGTCCCT CTCCATGTCC AGGAAACTTG TAACCACCT 120
 TTTCTAACAG CAATAAAGAG GTGTNCTTGT CAAA 154

SEQ ID NO:2471

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02843

SEQUENCE DESCRIPTION:

GATCACAGGC CTTGCTTTTG TAACAATGAT GACCCCGGCC TGTCTCATAT TCTGAAGAGG 60
AAAAGTCAAA GTGTTGCTGN GGCTCCATAT TTCAACTAAA AATATATCTG TTGGAGAAAG 120
AAATTAACAA TAAAGAATT TCATAGGTTA AA 152

SEQ ID NO:2472

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02844

SEQUENCE DESCRIPTION:

GATCGTATTC CCTGCTTTAA GGAAGTNTA GNCTTGTTTG GGTGATGAGA CAAAGTTCTT 60
GAGACATTTA AACTGTATTT ACCAGTGTGA AAAATGTCAT TTATGGAGAT TAATTCATTA 120
TGGAATAAAA ACATTGCCTA AGCCCTTGAA A 151

SEQ ID NO:2473

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02845

SEQUENCE DESCRIPTION:

GATCCAATCA GCTGTAAGTN TTAAGCACAG GGCTGAGGCT CCCTCCAAGT ACCCACTGGG 60
AACAGCAGCT TCAACCTGAG CCCTGNGTCC CAGCCAGCCC CCACAATCAC CTATGCCCAT 120
TCTTCAGAAT ACATTGGATG CATGTGCAAA 150

SEQ ID NO:2474

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02846

SEQUENCE DESCRIPTION:

GATCCAGAGA GTCTGAAGAC ATTTCTNATG CCTTTATATA TTGGAGAACC CTCCCCATT 60
TTNATATCCT TTCTTCAAAA ATCTAAATNA TGTGCCTAAA AATAAGACAT GGCATAATAA 120
GGTATAATTA AAGAGATAAT AGAATGAAA 149

SEQ ID NO:2475

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02847

SEQUENCE DESCRIPTION:

GATCCAGTAC CTGAAAGATT TGATAGAAGA GGTCCGCAAG GCAAGGGGGA AGAAAAGGGT 60
 CCCCTAGTTG AGGATAGTCA GGAGCGTCAA TGTGCTTGTA CATAGAGTGC TGTAGCTGTG 120
 TGTTCGAATA AATTATTTTG TAGGGAAAGT AAA 153

SEQ ID NO:2476

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02848

SEQUENCE DESCRIPTION:

GATCCTTTTG GAGTCAGACA GATGTGGTTG CATCCTAACT CCATGTCTCT GAGCATTAGA 60
 TTTCTCATTT GCCAATAATA ATACCTCCCT TAGAAGTTG TTGTGAGGAT TAAATAATGT 120
 AAATAAAGAA CTAGCATAAC ACTCAAA 147

SEQ ID NO:2477

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02849

SEQUENCE DESCRIPTION:

GATCTCCAGT GATTGGCGAT TTGACCTGGT TTCTNCCTGG ACTATTTGAA TGGGTGGATT 60
 TGTGGGTGCA TCTCTTGCT TCTTTCCTTT TCCATTCTCC TNTATTNTN TATTACATA 120
 CTTGTATGCA ACTNTGTAAT CTGATTNCCC CATGTAACAT TNTAATTGA NGGGTGGTCT 180
 GCGTGTNCAC TGGAAAACAT ATNTATN 207

SEQ ID NO:2478

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02850

SEQUENCE DESCRIPTION:

GATCGAGCTC ACAGGGGGCA CCCATCCTGN TAGTCAACAG AGTCTGAAGC AGTCAGGGTG 60
 TTGGATTCTT CTGTTGTTGT CATCAATTCC TGCTGAGGGG TTTCTGGGGT TTTGTTTTTA 120
 ATAAATAACT CCTTTGTAGC CTTAAA 146

SEQ ID NO:2479

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02851

SEQUENCE DESCRIPTION:

GATCCCGGCC AGCCAGGTGA CCCCCACGCT CTGGATGTCT CTGCTCTGTT CCTTCCCCGA 60
 GCCCCTGCCC CGGCTCCCCG CCAAAGCACC CCTGCCCACT CGGGCTTCAT CCTGCACAAT 120
 AAACCTCCGA AGCAAGTCAG TAAA 144

SEQ ID NO:2480

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02852

SEQUENCE DESCRIPTION:

GATCCAGGCA AATTCATGTT CTTTCTTTGT AACTCACTTT CTTCGTCAAC ATTTCTGTGA 60
CTCAATGGAT AGCATATTTT CATCAAGTAG CACGTATAAC GTGATGCTTT CATGTTTCTG 120
CCTTAAATAA AATAACCCTC AAA 143

SEQ ID NO:2481

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02853

SEQUENCE DESCRIPTION:

GATCTCTTTG ACTGCTGTAG TACTAAAGTG TACTTAATGT TACTANGTTN AATGCCTGGC 60
CATTTTCCAT TTATATATAT TTTTAAAGAG GCTAGAGTGC TTTTAGCCTT TTTTAAAAAC 120
TCCATTTTATA TTACATTTGT AACCATGATA CTTTAATCAG AAGCTTAGCC TTGAAATTGT 180
GAACTCTTGG AAATGTTATT AGTGAAGTTC GCAACTAAAC TAAACCTGTA AAATTATGAT 240
GATTGTATTC AAAAGNTTAA TGAAAAANTAN ACATTTCTGT CCCCCTGAAA 290

SEQ ID NO:2482

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02854

SEQUENCE DESCRIPTION:

GATCTGATTG AGATGTACAT AGTTTTTTTT TTTACCATAA CTGAATTATT TNATCTCTTA 60
TGTTAACATG AGAAATGTAT GCCAAATNAT TAGTTGATGT ATGTTTTTNA ATTTAATATT 120
TAAATAAAAT ATTTGGAAGG AAA 143

SEQ ID NO:2483

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02855

SEQUENCE DESCRIPTION:

GATCCTTATC AGGGAGAGCA GGAATCCTTA TTCCCGGTGT CGCTAGTACT CATCTCTGCC 60
GCCTCCTGTC TGCCCCCAGG CTGCTGCTNC TGCTGCCCTG TGGGTTGTGC CAAGTGTGCC 120
CAGGGCTGCA TCTGCAAAGG GGCCTCGGAC AAGTGCAGCT GCTGCGCCTG ATGCTGGGAC 180
AGCNCGCTCC NAGATGTAAA GAACGCGACT TCCACAAACC TGGNNTTNNT TATGANCAAC 240
CCTGACNGTN ACCGTTTGCN ATATTNCNN 269

SEQ ID NO:2484

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02856

SEQUENCE DESCRIPTION:

GATCATACAT TTTATATGGT TGGGACTTCT CTCTTCGGGA GATGATATCT TGTTTAAGGA 60
GACCTCTTTT CAGTTCATCA AGTTCATCAG ATATTTGAGT GCCCACTCTG TGCCCAAATA 120
AATATGAGCT GGGGATTAAA 140

SEQ ID NO:2485

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02857

SEQUENCE DESCRIPTION:

GATCCAACCC CACCCTCCTG GGTGCGGCCA GAGGCAAGGC AGTCGCCCGA GCTCCTGAAT 60
CCCAAGAATG GTTCTGGCAA GTACTGCTGT TTGTTTGTAG GGGCAAAGAG TTAATAATAA 120
ACGAGGTTCT GCCATGAAA 139

SEQ ID NO:2486

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02858

SEQUENCE DESCRIPTION:

GATCTGCCGG CTCCCGTCCA GCCTGTGTGG AAAGGAGGCC CACGGGCACT AGGGANNCNG 60
AATTCTACAA TCCCGTGGG GCGGCCGGGT CGGGAGAGAA AGGTGGTGCT NCAGTNGTGN 120
CCCTGGGGGG TCATTCGAN 139

SEQ ID NO:2487

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02859

SEQUENCE DESCRIPTION:

GATCTTCAAT GCCTCTGAGT CATTGTTATA AAAATCAGT TATCACTATA CCATGCTATA 60
GGAGACTGGG CAAAACCTGT ACAATGACAA CCCTGGAAGT TGCTTTTTTT AAAAAAATAA 120
TAAATTCTT AAATCAAA 138

SEQ ID NO:2488

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02860

SEQUENCE DESCRIPTION:

GATCATGGTT CTCTTTGTAC GATAGTTGGG CATCTGTATT TCCACTTGTG TGAATTGCCC 60
 TTTAAATTTT GGTATGGGT TTCACCTTTT AAAATAATCA AACATATTTA TCTTTTCCTG 120
 TGTGATAGGT TTTTNCCTGT ATCTTTTCCT GTTAAACACA CAGACCCCTC CCCAATCTGG 180
 ACATTGAATA CNTATTCATT TTCCTTTGCN NNAATANNCC NNANACANAC N 231

SEQ ID NO:2489

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02861

SEQUENCE DESCRIPTION:

GATCTGCCCC TGCATTGTAG CTGCTTAAC GGAGCACTTC TCCTTTTCC AAAGGTCTAC 60
 ATTCTAGGGT GTGGGCTGAG TTCTTCTGTA AAGAGATGAA CGCAATGCCA ATAAAATTGA 120
 ACAAGAACAA TGATAAA 137

SEQ ID NO:2490

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02862

SEQUENCE DESCRIPTION:

GATCTTTAAA TTTTGAGACA GTATAAGGAA AATCTGGTTG GTGTCTTACA AGTGAGCTGA 60
 CACCATTTT TATTCTGTGT ATTTAGAATG AAGTCTTGAA AAAAAGTTTA TAAAGACATC 120
 TTTAATCATT CCAAA 135

SEQ ID NO:2491

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02863

SEQUENCE DESCRIPTION:

GATCCAAATA TTTTCAAGCC ATGTAATCCA TTGGTTTTGT GGGCAGTTTA ATAAACCTGA 60
 ACCTTTGTGT GTTTCTAAT TGTACCTGAG TTGACCATCC TTTCTTTTA NAGTATATTT 120
 CTNGTATGAT ATNTGTAAA GCTCTCACCT GGTCTTTTA TGGGGACTTT TCGTTTTTGG 180
 GCAACTGCAG TGTATTTATG TGAANCTTTA TANGAGAATT ANTTTTTCCA TGTGCATATT 240
 AATATGGTNC CTCCACACAT GGNNAGGGCA CAGTGGCTTC GTGTTN 286

SEQ ID NO:2492

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02864

SEQUENCE DESCRIPTION:

GATCATGCCT CTTTCCAACA CGTGTTTACA ATCTCCAAAG GGACTGTATT TNTNCTCTGT 60

GCTTAATNTG ATTTGAAATA TGTGAATCA AAGTGAAATA TTTATNTTTT GAATAAAGGA 120
GATAATAGCC TTAAA 135

SEQ ID NO:2493

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02865

SEQUENCE DESCRIPTION:

GATCGAAAAC AAACGNTAGA TAATNCCCAA GGAGCTTACC AAGAGGCATT TNATATAAGC 60
AAGAAAGAGA TGCAACCCAC ACACCCAATC CGCCTGGGGN TTGCTCTTAA CTTTCCNGTA 120
TTNACTATG AGATN 135

SEQ ID NO:2494

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02866

SEQUENCE DESCRIPTION:

GATCATGCCA CTNCACTCAC ACTGACACTG CCTCGGACAA CAGAGCAANA CTNCATCTCA 60
AAAACAAACA AAAAAATCA CAGNCTCATT TTAAAGGAGC AGCAACCNA CCAAATACAA 120
NCTTCATTG ACAAN 135

SEQ ID NO:2495

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02867

SEQUENCE DESCRIPTION:

GATCATTAAC ATGCCAGGGC AGTTCCCACT GATTAGATG GTCCAAGATA ATCTCATTCA 60
GGAGGCTTGA AACATTAATG GTTTAGTCTT GTGAATTTA ACAGTTCTCT GTCATCGTTT 120
AACAAAACCA ACAN 134

SEQ ID NO:2496

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02868

SEQUENCE DESCRIPTION:

GATCATGCCA CTGGACTCTG TGCTGAGCAA CAGAGTTAGA CCCTGTCTCT AAATAAATAA 60
ATAACAAAT AACAGTAAA AAAATGTATA GTTCAATCCT TATCTGTATT AAACCTCCTT 120
TAAC TTGTGT GAAA 134

SEQ ID NO:2497

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02869

SEQUENCE DESCRIPTION:

GATCACATGT GGGCCCGTGT CTGGCCGCCG CCGCCCGGCC CCGTCCCTGC GGNACCACC 60
TAATTTATTG CCGTGCGTCC TGCTGCTGTG ACTGCTTTTG TACCTTTGCA ATAAAGAATT 120
TTCTGGTTTC AAA 133

SEQ ID NO:2498

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02870

SEQUENCE DESCRIPTION:

GATCCTGGAC ATATTTTATA TTTATACCAA ATATTTTATA TATTTNCTAC TGTTGTCAAT 60
GGTAGTGGTT TTTAAATTTT CAAACATTCA TTACTAGTAT ATAGAAATAN AATCACTTTT 120
TAAAAATGTA AA 132

SEQ ID NO:2499

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02872

SEQUENCE DESCRIPTION:

GATCCTGTTT TTTCTTAACA AGTTGAGGCG TGGGTAGAGC AGGAATTGGT TTTCCAGCAT 60
TGTGTCCGTA AACCTGAGTT AGAATAAGAT GTAACGGAAG CCACGATAAA GACTCGGTCA 120
AATCCTGCAA A 131

SEQ ID NO:2500

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02873

SEQUENCE DESCRIPTION:

GATCCTGGAT GGAAGTGGCT TCTTTATCGA GAAGAATATA ATTCTCCATG AGGACTTAAT 60
GAATCCAAAC CTGTGTCATG CCTGGTTTGC ATACCCAATT AAACACTNGA AATAAAAAATT 120
NTTNGGTTNN AAA 133

SEQ ID NO:2501

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02874

SEQUENCE DESCRIPTION:

GATCTCTGCT CTTTGTGAGA GATTTGCAAA GACTCACGTT TTTNTTGTTC TCTCATCATT 60

CCATTGTGAT ACTAAGAAAC TAAGAAGCTT AATGAAAAGA AATAAAATGC CTATGTTGTT 120
GTTCTAGAAA 130

SEQ ID NO:2502

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02875

SEQUENCE DESCRIPTION:

GATCAAAAAA GGCAGATGNA ANTACTTAAN ACTCAGTGTT TTGGAGAGAT TTCCTTTNAG 60
TTTGTGTTGTT GGCTGGTTTG AACGATAGAA ATATGCAGCA TGCAATATAT GCTTATATTT 120
NATTNAATN 130

SEQ ID NO:2503

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02876

SEQUENCE DESCRIPTION:

GATCCCCCAC CTGGCAGAGG ACCCAGTACA AAATAGGCAC TCAATAGATG TTACACCAAC 60
TTTGGAAGGG CAAACATATT TCTTAATGAG AGGCAGTCCT TCATGTTTTN CAATAAAATG 120
ACTTTTAAA 129

SEQ ID NO:2504

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02877

SEQUENCE DESCRIPTION:

GATCTTCTCC GAGGCCACC GAAGGTACTG AAGAGCCTCA CCTGGGGGCA TTTTGTGGGT 60
GGAGGGCCAG AGTGTGTATA CCCAGGCTTG TCTGGAAGGA GAAGGCCTTT GCTGCCTGAA 120
AGTCTCAA 129

SEQ ID NO:2505

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02878

SEQUENCE DESCRIPTION:

GATCTAAATA AGTGTTCCT GGAAGTTTT CCTAAGCAAA TGTAATATTA CCTCATTTGG 60
GCATCATTAC TCTGTTAATT CTATATCAA GGAATAAAC TTGCTACTTG CACTAAATGA 120
AAAAACAAA 129

SEQ ID NO:2506

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02879

SEQUENCE DESCRIPTION:

GATCGTGCCC CGGGGCGCCG GCCCCTGNAG GGGCTCACCT GGATGGGGCC TGCAGTGCCT 60
TCCCGCTTTG CTTCTTCCC TGGACGGCCC GCTCCCGAA ACGCGCGCAA TAAAGTGATT 120
CGCAGAAA 128

SEQ ID NO:2507

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02880

SEQUENCE DESCRIPTION:

GATCACTCTT GTGGTTTTGG GGGATGGCAT TATAAGAGAG GAGACTGGAN ACAGGGGGGC 60
TATTGTNATG CAGATTTGTT GGATGTCCAC CCAGCATTCA CTTTNNCCAT CTTTGGCCAG 120
GGGNNNN 127

SEQ ID NO:2508

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02881

SEQUENCE DESCRIPTION:

GATCCACGC AGCGCTGAAC CGAACCGAGT AGGAAGCCTT TCTCCCCANG GCACGTGGCT 60
TCAGGGCGTT TCCCATTTGAC CAAGTTTGAC CCTGNTTTGA ATAAAGAGAA GTGCGTTTGG 120
ATTAGAAA 128

SEQ ID NO:2509

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02882

SEQUENCE DESCRIPTION:

GATCGAGCTT CTCCTCTGAG TTCTAACAAA ATGGTGCTTT GAGGGTCAGC CNTTAGGAAG 60
GTGCAGCTTT GTTGTCCTTT GAGCTTTCTG TTATGTGCCT ATCCTAATAA ACTCTTAAAC 120
ACATTGAAA 129

SEQ ID NO:2510

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02883

SEQUENCE DESCRIPTION:

GATCTCTGAT TTAACCGTGT ACTATCCACA TGCATTACAA ACATTTCGCA GAGCTGCTTA 60

GTATATAAGC GTACAATGTA TGTAATAACC ATCTCATATT TAATTAAATG GTATAGAAGA 120
ACAAA 125

SEQ ID NO:2511

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02884

SEQUENCE DESCRIPTION:

GATCTTCCAT CTCCTCAGCA AAAAAATAGG AGCCCTGGCC CCCCAACTTT TTNCANAGTA 60
ATAGCCTTAN TTCCTTCCCT ATCTCCTTAC CAAAGTACAN GTNACATCTT TCCCACCTTT 120
CNTN 124

SEQ ID NO:2512

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02885

SEQUENCE DESCRIPTION:

GATCTACAGA TTCAATGCAA TTNCTATTAA AATCTNATCT GGCTTTTTTT GCATAAGCAA 60
CAAAGGAAAA ANTAAGACAT CAAAATTNA AGANCTTTTG TCCTACAAAC AATATCATGA 120
NGAN 124

SEQ ID NO:2513

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02886

SEQUENCE DESCRIPTION:

GATCAGAAAA TTCATATTTA AGCAAAGTGA TACAAACACA GTGATTTGGG AATGCCTTCA 60
TTTACAATGC AATACTTAAA TTTTAATACT CTTGTAGGAG AAAAAGCAAC TGTATAAATG 120
AATGTAGAGT GACTTCTGTC AATATTTCAA ACCTATATCA GAGAATTACA CTGTGGGAAA 180
NCTACCATTG TAATAAGTGT AGCAAAATCT CCTAGATAT CTGAAAAGTC ATACTGGATG 240
GAATCTGTAG GAAACGGTTC TATTTTGAGG GAAGGGGGAT TCCTTTTTGT TTTTAAAGTG 300
AATTCAGAAA ATGTTATAAA TAANTCTTTT GGTTTATTAT AAA 343

SEQ ID NO:2514

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02887

SEQUENCE DESCRIPTION:

GATCTNTACC CCACCCCTAT CTAACACCAC CCTTGGNTCC CACTCCAGCT CCCTGTATTG 60
ATATAACCTG TNAGGCTGGC TTGGTTAGGT TTNACTGGGG CAGAGGATAG GGAATCTNTN 120
ATN 123

SEQ ID NO:2515

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02888

SEQUENCE DESCRIPTION:

GATCCAAAAT TACCTTCCTA TTGCATTTCC TACTCCTTG CTACGNGTAT TGGACCTCTG 60
GCCAAATNAC AAAAGATGTA CTCTTTGTNC TCTAAACCA CACTAAAGTT TTCTNACTNN 120
N 121

SEQ ID NO:2516

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02889

SEQUENCE DESCRIPTION:

GATCAACCAA CCTTAAATAT ATGTATGTAT ATATGTATAT GTGAAAAACA GTTTGTATAG 60
TTGGAATATT TGTNTTGTGA ATTACTTG TG ATGTTTAA ATAAAANTTT TATTCAGTTA 120
AA 122

SEQ ID NO:2517

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02890

SEQUENCE DESCRIPTION:

GATCTGGCAC CCCCTGGGTG GAGTGTCCCT CGGGGGCTTT GGGAAAGCAT GGCACCCTCA 60
GACCACACAG TAGCCAAGTT CTGGAGCAA TAAAGGCCT GTGTTATNTC TTGTNCTTGA 120
AA 122

SEQ ID NO:2518

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02891

SEQUENCE DESCRIPTION:

GATCTCAAAG ATATGCACCA GTTTGAATAA ATGCTTGTTT AAAGATTAAA TTTTACAATT 60
CATTTTAAAT TNCATTTTG TGACAATATT TCTAAACAAC GNCCATTTTA ATNACCAA 119

SEQ ID NO:2519

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02893

SEQUENCE DESCRIPTION:

GATCATAGGA TAGCTGACTT TGACAGTCAC ATTTATAAAG TAATTCACCT AAAGATATAT 60
ATTTTTCCTCA AACAAGTTTT GCTACTTTTG AAAATAAATC TTTCTTTATA TTGCTAAA 118

SEQ ID NO:2520

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02894

SEQUENCE DESCRIPTION:

GATCCAAACC CATCTTCCTG GACCTGAAGC TTATGCTTCC AGGCACCCCA CTCCTGAGCT 60
GAATAAAGAT GATTAAAGCT TAATAAATCG TGAATGTGTT CACATGAGTT TCCATAAA 118

SEQ ID NO:2521

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02895

SEQUENCE DESCRIPTION:

GATCTGCACA GTGTTATGGC ACCCTACTTC CTGCAGCAAC GGGACACNCT GCGGCGCCAT 60
GTNCAGAAAC AGGAGGCCGA GANCCAGCAG CTGGCAGATG CCGTCCTNNC AGGGCGGN 118

SEQ ID NO:2522

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02896

SEQUENCE DESCRIPTION:

GATCCTATCT TTNCTGGCAG GACTGGNAGC CATGGTGGGC TACGTTNTGN TCAGCGGCAT 60
TNTTCCATC CAGCGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGN 118

SEQ ID NO:2523

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02897

SEQUENCE DESCRIPTION:

GATCTAGTCC GGACTTGCTG TGTATATTGT AACGTAAAT GAAAAAGAA CCCCCCTTG 60
TATTATAGTC ATGCGGTCTT ATGTATGATN AACAGTTGAA TAATTTGTCC TCAGAAA 117

SEQ ID NO:2524

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02898

SEQUENCE DESCRIPTION:

GATCGTNATT NAGAATCCAT GTGAATAGAC CTGCGATGGC CAAGGCTGTT TAAGCNACAC 60
TGGGTTGGAA ACACTTGGGC TCTCTCATNA TTATTAAAAT TCTATTTCOA TCTAAA 116

SEQ ID NO:2525

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02899

SEQUENCE DESCRIPTION:

GATCCTTTGC NTTCAAGACT AAGTTAATAG AGAAGATGTT TGTAACNTG GCCCAAGCTT 60
GGNCTCCCAG TGTATTGAAG CTAACCTCTT TNAGAAGCAC CACTCTCATA TATNAN 116

SEQ ID NO:2526

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02900

SEQUENCE DESCRIPTION:

GATCTCTGGG TAAAGAGGCC GTTTATCTTT GTAAACACGA AACATTTTTC CTTTCTCCAG 60
TTTTCTGTTA ATGGCGAAAG AATGGAAGCG AATAAAGTTT TACTGATTTT TGAGAAA 117

SEQ ID NO:2527

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02901

SEQUENCE DESCRIPTION:

GATCTAGGAA GACTTTGGAA AGAGTAGGAA GACTTTGGAA AGACTTTTCC AACCCCTCATC 60
ACCAACGTCT GTGCCATTTT NTATTTTACT AATAAAATTT AAAAGTNTG TGAATCAAA 119

SEQ ID NO:2528

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02902

SEQUENCE DESCRIPTION:

GATCCCAGG AGGCCTGGNC CGCCCAGAGG CTCCTCTCAG GCTGGGCCCC GACGTTTGCG 60
NCAGTGTTCC TTGTGCCCGT GGGGCCGGGA GCNAGTAAAG TCTGGGCCAG GCAAA 115

SEQ ID NO:2529

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02903

2153480

SEQUENCE DESCRIPTION:

GATCACGTTT CAGGGTCCTC CAAAANGCTA GCCCGGCACT AACTAGGGA ATTCNCCCT 60
CTCCTGTCAC TTGTCATGGT CTCCTTGGT ATTAAAGGCC ACCATTGCA CAAAACAAA 119

SEQ ID NO:2530

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02904

SEQUENCE DESCRIPTION:

GATCCCAGAA ATGTAGCTTG TTTCATATTT TAGTCTTCTT ATTTTGTAA AATGTGTAGA 60
ATTTGCTGTT TTTNTTTTTC TTTTGACAAC TCAGGAAGAA ACTGACCTCA GAAA 114

SEQ ID NO:2531

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02905

SEQUENCE DESCRIPTION:

GATCAGCCCC CAAAGAAATG GGGGTGCATG CTGGGCCTGG CCCCCTGGCC CACCCCACT 60
TTCCAGGCA AAAAGGGCCC AGGGTTATAA TAAGTAAATA ACTTGNTGT ACAGCCAAA 119

SEQ ID NO:2532

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02906

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTCAACAGG GCAAAGATAC CAGGCCTNCT GCTGAGGTCA CTGCCACTTC 60
TCACATNCTG CTTAAGGGAG CACAAATAAA GGTATTCGAT TTTTAAAGAT AAA 113

SEQ ID NO:2533

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02907

SEQUENCE DESCRIPTION:

GATCAAAATG TTTGAAGAAA GGAACCTTAT TTTTGCAAGT TACGTACAGT TTTTATGCTT 60
GAGATATTTT AACATGTTAT GTATATTGGA ACTTCTACAG CTGATGCCT CCTGCTTTTA 120
TAGCAGTTTA TGGGGAGCAC TTGAAAGAGC GTGTGTACAT GTATTTTTTT TCTAGGCAAA 180
CATTGAATGC AAACGTGTAT TTTTAAATA TAAATATATA ACTGTCCTTT TCATCCCATG 240
TTGCCGCTAA GTGATATTTT ATATGTGTGG TTATACTCAT AATAATGGGC CTTGTAAGTC 300
TTTTCACCAT TCATGAATAA TANTANATAT GTACTGCTGG CATGNAAA 348

SEQ ID NO:2534

00927

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02908

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAT GGGAGCTTCC CTNCACAGAC TCTNTCTCTC GTGCCGCTGC 60
CATGGCCATG TAAGNAGTGC CTTNACCTT CCCCCGTGAT TGTNAGGCCT N 111

SEQ ID NO:2535

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02909

SEQUENCE DESCRIPTION:

GATCCCAACA GGACAAATCT GTGTACCTAT CTTTCTATCC TCCCTGAGCC TGTACCAACT 60
AGATTCTTCA TATGTATTG TAACAGATTA AATTGGAAAG CAAACACAAA 110

SEQ ID NO:2536

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02910

SEQUENCE DESCRIPTION:

GATCCCCAAC TGCTCCAGCC TCTGCCCAAC TGAATCTTCA GCATGTTCTC ATCGGCGGAC 60
TNTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAATAAA 110

SEQ ID NO:2537

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02911

SEQUENCE DESCRIPTION:

GATCTGTTTG GAAAACATAG ATTGTTTCC CCTCAAATAA GGGGAAAAAA AAANACCCTT 60
TNTNCAAATN GNTTCTTTTG TAAAAAATA TTTTAAAAGG AAATCACAAN 110

SEQ ID NO:2538

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02912

SEQUENCE DESCRIPTION:

GATCTTTTAA ACTCTACTGT GTCATTAAGA TGCTTTGTAC AATGCCAAAC CATAGTTGGA 60
GAAACTAAGT TTAATAAATA TCAAATAGAT TTTCTGTATT AAAGTTAAA 109

SEQ ID NO:2539

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02913

SEQUENCE DESCRIPTION:

GATCTCCCC ACCCTTGGAT TAGAGTTCCT GCTCTACCTT ACCCACAGAT AACACATGTT 60
GTTTCTACTT GTAAATGTAA AGTNTTTAAA ATAAACTATT ACAGATAAA 109

SEQ ID NO:2540

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02914

SEQUENCE DESCRIPTION:

GATCTCCTNT CCTCACTCA GTGCACGGGA CAGCTNCTCC TCCGTCACAG CTTGGGATG 60
AAAGACAGAA GACAGCATGA TTGGCCTCAC CCACGTGCAG GNCAAATNN 109

SEQ ID NO:2541

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02915

SEQUENCE DESCRIPTION:

GATCTGTCAC TCAACTTGCT GCGTNACCTG AACACGTCAC TTTACCTCTC TGTGCCTCAG 60
TTTTCCCATG CATGAAAAAT AAAATAAAAT AAAACGGGGA TTCTAAA 107

SEQ ID NO:2542

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02916

SEQUENCE DESCRIPTION:

GATCAGTAAG GATTTCACCT CTGTTTGTA CTAAAACCAT CTACTATATG TTAGACATGA 60
CATTCTTTTT CTCTCCTTCC TGAAAAATA AGTGTGGGAA GAGACAAATA AA 112

SEQ ID NO:2543

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02917

SEQUENCE DESCRIPTION:

GATCATAGAA GGTGGGGTT CCAGAAAGGC ATCTGTGTGA TGGTTCCATT GATGTGGGAT 60
TTCCCTACTT GCTGTATTCT CAGTTTCTAA TAAAAAGAAC CAAATNAAA 109

SEQ ID NO:2544

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02919

SEQUENCE DESCRIPTION:

GATCCAGGAG ATANTTTTT CATTATCCT GACCAAGACT GAGCCAGCTT AGCAACTNCT 60
GGGGAGACAA ATTNAGAAC CTTGTCCCAG CCAGTNAGGA TGACAGTN 108

SEQ ID NO:2545

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02920

SEQUENCE DESCRIPTION:

GATCGAGCCC AGCGTACAAC TTCCTCAAGT CGCCCAAAGA CAACGTGGAC GACCCACGG 60
GGAATTCCG CAGCGGGCCC CTGACGGGT GCGGGGTGT CCTGCTGCNN NNGTGCCTC 120
TCCTGGGCAT CGTTGTCTGC GCCGTGGTGG GGGCCGTGG GTTCCAGAAG CGGCAGGAGC 180
GGAACAAGCG CTTCTACTGA GTGGCGCCTC CGGCGGTGGC CTGTCCCTGG GCCCAGGAGC 240
CAATGTGAAC TTTTGTGGNT ACCGGGATTA TAAANGAACA ACAAGATGAC CTTATTTCTT 300
AACTGTTCA AATAAATGA TTAAAGTAT TTTCAAAAA AGN 343

SEQ ID NO:2546

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02921

SEQUENCE DESCRIPTION:

GATCCTGCCG TGCCCCATC CTGGCTGTTG GGGGTGTCCT GAGCCACCT NNNTNCGCCT 60
GTTCCCTTCA GCCAACCCGT TTCTGCAGTA AAATTAAGCC TGTCAA 107

SEQ ID NO:2547

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02922

SEQUENCE DESCRIPTION:

GATCACTGAA CCAGACACAG CATTGCTGAC ACATGAGACT AACACGTGCA ATTATTAAA 60
AAGATTTCAA TAAACTNCC TGGCTGGCTC CGGGCCGCCC CTA 105

SEQ ID NO:2548

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02923

SEQUENCE DESCRIPTION:

GATCCTGTGG GTTTAGTATC ATTATCTTCA GCTCTTTGAT ACNCTGTGTT AGAGTAATAG 60
CTAAAGGAAG TTCATGTCAA TAAATTCATA CTTATATCAC AAA 103

SEQ ID NO:2549

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02924

SEQUENCE DESCRIPTION:

GATCCAGAGC TGGGGTGGAA GGAGAGCCAT TCTGAACGNC ACGNCTGGCC CGGTCAGTGC 60
TGCATGCACT GCATATNAAA TAAAATCTGC TACACGCCAG GAAA 104

SEQ ID NO:2550

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02925

SEQUENCE DESCRIPTION:

GATCCCNAGG CTCTGTTCCA TGAGCCTGTT GCANGTTTGT GTACTTTAGA AATGTAAGTT 60
TTTGCTCTTA TAATTTTATT TTATTAAATT AAATTACTGC AAA 103

SEQ ID NO:2551

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02926

SEQUENCE DESCRIPTION:

GATCGATGAG GCAGGTCAGT TGTAAGTGAG TCACATTGTA GCATTAAATT CTAGTATTTT 60
TGTAGTTTGA AACAGTAACT TAATAAAGA GCAAAAGCTA AA 102

SEQ ID NO:2552

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02927

SEQUENCE DESCRIPTION:

GATCATATCT AGTNTTNAAG TCTCTAGGAA CAATAGAGAT TATATCATAA CTCTGAAGAT 60
GGACTCTAAA CTTTGGTTTA CCTCCATGGA AAATAANGCN NN 102

SEQ ID NO:2553

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02928

SEQUENCE DESCRIPTION:

GATCGAATGA GGGTTAAATG AATTATTCA TGTAAGCTC TTAGCCCTGT GCCTGGTACA 60
TAGTAAATNC TAAATAAATA GTGGTATTCT TACTGTTTAA A 101

SEQ ID NO:2554

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02929

SEQUENCE DESCRIPTION:

GATCCAGCTT ATTCTTTTAT TTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT NGATGTTGG CAGGGGAGGG 120
GAGACCTGGG TGGTGNCTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180
GCTTNNNTNN TAGGTTTTAT TTNNNNATGA ATGTCCAAAT CTGTGTTTCC CCCTGCCANA 240
ACAGACTGTG TGGCCAGTTG AAAGTGTCTT GGTGTTGTTG TCATCTCTCC CTCATTTTCT 300
TGGAGGCAGG GCCTGAGANC CCTGNCANAA TCTCCTATGG TTNTGAATCC ACGGCTTCTT 360
TTTGGACATT AAAGGTTGAT TTGATGCAAA 390

SEQ ID NO:2555

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02930

SEQUENCE DESCRIPTION:

GATCTATCCT CAGCACTGCT GAGTGTGCAG TCACACTTTC CTACCAACCC NCTTCTTACC 60
ATCTCTAGCT GCCATTGTG GGGGGAACAA AACAAGGGAA TCCTGATTGT GTACAGTATA 120
AATTGTATTA TATTTTTTGT ACTTATGTTT TATGTAAATA GTTGTCTCA TTCAATTGTA 180
TGTGAGCATT GAAATAAATC CTACCATTTA GGGGAAAAAA ATNNAAA 227

SEQ ID NO:2556

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02931

SEQUENCE DESCRIPTION:

GATCTTCAAA AATAATGCCT CTGTCTAGCA TGCCAACAAG AATGCATTGA TATTGTGAAC 60
ATTTGTGATA TATGTATTAA TAAATAGAGC AATTACAAGC AGCAAA 106

SEQ ID NO:2557

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02932

SEQUENCE DESCRIPTION:

GATCTTTCTT ACACAGTGAT TCATTCTCTT ATTTGTACAG TGGCTTTATG AAATATTGTG 60
AATTGATACT GTAATCAATA AAGTGCTTTT AACCAGAAA 99

SEQ ID NO:2558

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02933

SEQUENCE DESCRIPTION:

GATCCTGGTT CCCTGTTTGG AAAATTCACC ACCTCTAGCT CCTCACTGTT CTTTGTAATT 60
AACACGCTGT TGGTAATCTT ATTAATTATT TAACCAAA 98

SEQ ID NO:2559

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02934

SEQUENCE DESCRIPTION:

GATCTGGGGA CCCTGACTGC ACAGAACAGT GGGCGCNTTA CAGACCACCG ACCGCCGAG 60
GGTGAATTAC ATCTTAATAA AGCTACTGTG AGAGAAA 97

SEQ ID NO:2560

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02935

SEQUENCE DESCRIPTION:

GATCGCCGCC AACATCCAGG CTGACTACTT GTATCGGTGA CGCCCCACCG GCCCGCAGCC 60
CCTGCTGCCC AATAAAACCA CTCCGACCCC AAA 93

SEQ ID NO:2561

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02936

SEQUENCE DESCRIPTION:

GATCATCCCT TGACAGTAGT TTGCTTTCAT CTCACCTTTC ATTTGTCCCA AANNCACCTA 60
TATTTAATAA AGTCCCCCCC NGTNGTCTCA AA 92

SEQ ID NO:2562

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02937

SEQUENCE DESCRIPTION:

GATCCACAAA ATGAGACAAT GCATGTGAAA ATCCATGCTC ATGTTCTAAA CATGGAACT 60
AGGAGCCTAA TAACTTCCT AATTCAGTAA A 91

SEQ ID NO:2563

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02938

SEQUENCE DESCRIPTION:

GATCGTATTT TTATATCATA TTCACATATT TTTTTTTTA ATTGGTGTGA GATGACATGA 60
TTAATAAAAA AGGCAAGATA TTTTCAGAAT TTGAAA 96

SEQ ID NO:2564

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02940

SEQUENCE DESCRIPTION:

GATCGCGCCA TCGCACTCTC AGCCTGGGCA ACAAGAGTGN AACTCCATCT CAAAAAATA 60
AAAATAAAAT AAGTAAGNAA TACCTAAA 88

SEQ ID NO:2565

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02942

SEQUENCE DESCRIPTION:

GATCTAATAT ATATCATCAG AAAATATATA TTGTATGTTT ACTCTTATTT TCAGAAAGAG 60
AAAATGAATA AAAATGATGA CATCAAA 87

SEQ ID NO:2566

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02944

SEQUENCE DESCRIPTION:

GATCGCTTGA NCCCAGGAGT TTTAAACCAG CCCGAGGAAC ATGGCGAAAC CCCATCTTTA 60
CAAAAAATAC AGAAATNAGC CAAGAAA 87

SEQ ID NO:2567

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02946

SEQUENCE DESCRIPTION:

GATCTAAGGG GTTGCCATGG TGTGAACAA TGCAACTTTT TATTAAAAA AGCTCTGCAC 60
TGCCATGTAT GAAAGTNTCT TTATGN 86

SEQ ID NO:2568

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02947

SEQUENCE DESCRIPTION:

GATCCNGGAT TGCTGGGAAT GGAAGCCAGG TGGGGTCATG GCACAAGTTC TGTAATCTTC 60
AAAATAAAAC TTTT TTTT TACAAA 86

SEQ ID NO:2569

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02948

SEQUENCE DESCRIPTION:

GATCCTGGCC ACTATGCCAG TTCTGACCTC GCATCCCCCT ACCCCGAGCC CATGCAGTCT 60
GGGAACATGC CGCCTTCTCT CCAAA 85

SEQ ID NO:2570

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02949

SEQUENCE DESCRIPTION:

GATCAAATTG TACTAGTGTC TGCAGGGTTT GTCAGTACTC GTCAAAGCCA AGTCCAATTA 60
AAAAAAAAAG TCTTTGCCCT CCAAA 85

SEQ ID NO:2571

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02950

SEQUENCE DESCRIPTION:

GATCTTTTCT TAAAAATTC TCTGCACACA CAGGACTTCT CATTTTCCAA TAAATGGGTG 60
TACTCTGCCC CAATTCTAG GGAAG 85

SEQ ID NO:2572

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02951

SEQUENCE DESCRIPTION:

GATCTTTTAC CCCTTTCAC TTTGGCTTTC TTATGTTGCT TTCATGAATG GAATNGAAAA 60
AAGATGACTC AGTTAAGGCA CCAAA 85

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SEQ ID NO:2573

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02953

SEQUENCE DESCRIPTION:

GATCTGCCCTG ATGGGAGGGC TCCTGTCGAG GGAGACAGAC ATATCCCCAC TGAAAAATTA 60
ATAAAATTGG TTTACATAT CAAA 84

SEQ ID NO:2574

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02955

SEQUENCE DESCRIPTION:

GATCTGACTG GAAAACAATC CTGTATCCCC TCCCAAAGAA TCATGGGCTT TTTTTTNAN 60
TTAAAAAGCA GACAAATAGA CAAA 84

SEQ ID NO:2575

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02957

SEQUENCE DESCRIPTION:

GATCAAAAAGA AACTTAAAAA GTGGAATGGG ATATGGCTTT TGGTACCTGA AAATAAATNC 60
TTTAATAATT GTAAGCCAGA AA 82

SEQ ID NO:2576

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02958

SEQUENCE DESCRIPTION:

GATCAAAAAT ATAGTTATAA TTTNTAAAT TTNAAAAATG TGATTGCNCT AATAAAGAAT 60
AAAANCTATG CTTTAAACA AA 82

SEQ ID NO:2577

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02959

SEQUENCE DESCRIPTION:

GATCACTGCA GNTTCTAGGA CCCGGTTTCT TTTACTGATT TAAAAACAAA ACAAAAAAAA 60
ATAAAAAAGT TGTGCCTGNN ACAA 85

00936

2153480

SEQ ID NO:2578

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02960

SEQUENCE DESCRIPTION:

GATCTCCCAT AATTTGAAAT TGAAATCGTA TTGTGTGGCT CTGTATATTC TGTAAAAAA 60
TNAAAGGACA GAAACCTTAA A 81

SEQ ID NO:2579

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02962

SEQUENCE DESCRIPTION:

GATCCACCAT CTTATCTGG TGCCATCCCT GACTTGGCTT CTGTCATAA ATGCCTATTA 60
AATGTTTCTT TCTGAGAAA 79

SEQ ID NO:2580

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02963

SEQUENCE DESCRIPTION:

GATCCAATTG CTGGTTACAT TTTGGGAAGC TCTCATTTTA GTGCTATGTA GTTTCATTGA 60
ATAAACTGTT TAATATAAA 79

SEQ ID NO:2581

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02964

SEQUENCE DESCRIPTION:

GATCTAAGAG GAAAGTGGT ATCGGTTGCN NTTTATTTAT AAAGGATGCA AACATAAAAT 60
TAGATTTTGG GCAAA 75

SEQ ID NO:2582

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02965

SEQUENCE DESCRIPTION:

GATCAGCCTT TTTGTTTCAA TGAGGTGTCC AACTGGCCCT ATTTAGATGA TAAAGAGACA 60
GTGATATTGG AAA 73

00937

2153480

SEQ ID NO:2583

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02966

SEQUENCE DESCRIPTION:

GATCCCAGAG TGGCCTGCCT ATCACAACCA CATCCCTTCC CCCCACAAGG CAATAAATCT 60
CATTCTTTA AA 72

SEQ ID NO:2584

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02967

SEQUENCE DESCRIPTION:

GATCAACGAC AAAATGCACT TCTCCCTCAA GNAGTGAGGC TTGGTCCAAT ACATGGCTCT 60
GCCCCCAGA AA 72

SEQ ID NO:2585

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02968

SEQUENCE DESCRIPTION:

GATCAATCTT GTATTTCTG ACCACATAAA GGCTTCTTCT CTTTGTAAATA AAGTAGAAAA 60
GCTCTCCTCA AA 72

SEQ ID NO:2586

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02969

SEQUENCE DESCRIPTION:

GATCTTGTTT CTGAAGATGG TTAAAGTTAT AGCTTCTTAA ACGAAAGAAT AAAATACTGC 60
AAAATGTTT TATATTGGC CCTTCCACCC ATTTTAAAT GTGAGAGATT TGTCACCAAT 120
CATCACTGGT TCCTCCTTAA AAATTAAAAA GTAACCTCTG TGTAAA 166

SEQ ID NO:2587

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02970

SEQUENCE DESCRIPTION:

GATCATAGGA GAGACCCATT NGCTAGCTAC TTCATTCGTT CTGACCTAAT AATAAAAGTT 60

00938

AGAACCATAA A

71

SEQ ID NO:2588

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02971

SEQUENCE DESCRIPTION:

GATCTGACGT TCCTGTGAC TTAAGGGTCC GGCTTGGGAA TTAAAGTTTG TTTCTGGCCT 60

TTAGCCTACA AA 72

SEQ ID NO:2589

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02972

SEQUENCE DESCRIPTION:

GATCTGGCCA GTCAAGGGTC CACAGGGTGC CAGCCTCTCA CCCTCAGAAT AAAGACATCA 60

GCCATTCAAA 70

SEQ ID NO:2590

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02973

SEQUENCE DESCRIPTION:

GATCATCTAA ACTGAGTCCA GCTGCCTAAT TCTGAATATA TATATATATA TATATCTTTT 60

CACCATAAA 69

SEQ ID NO:2591

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02974

SEQUENCE DESCRIPTION:

GATCCTTATT ACAGGAAAAG CATGAGTGGT GGCTAACCTG ACCAATAAAG TTATTTTATG 60

ATTGCAAA 68

SEQ ID NO:2592

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02975

SEQUENCE DESCRIPTION:

GATCTTAGAT TTTATGTAGT ATTAAGTGAA AAAATACGAA AATAATAAAC ATTGAAGAAA 60

AAAATAAA

68

SEQ ID NO:2593

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02976

SEQUENCE DESCRIPTION:

GATCACATTT TCTGTTGGTT AACATTNTTC CTAGCTTATA TGATGGAATT AAATATATTC 60
TGTGTAAAAA GGAAA 75

SEQ ID NO:2594

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02978

SEQUENCE DESCRIPTION:

GATCCACCTA ACAAGAAACC TAAAGTGTAG AGATTGCCAT TTNATTTGT AATTTTTTTT 60
TTTTTTN 67

SEQ ID NO:2595

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02980

SEQUENCE DESCRIPTION:

GATCACACAC CGGCTGTATT TAATATGTAA CATTTTCACA NATATTAAAG ANACAGAAGT 60
ATTAAA 66

SEQ ID NO:2596

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02981

SEQUENCE DESCRIPTION:

GATCAGCATG GGCCACGTAG NCGNGACTCC ATCTCTACAC ATAAATAAAA AATTAGCTGG 60
GCAAA 65

SEQ ID NO:2597

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02982

SEQUENCE DESCRIPTION:

GATCCAATTT ATGTTTTTTC TTTNTTTATA TTTTGGGGAA AATTAAAATT TTTTAAAGGT 60

AAA

63

SEQ ID NO:2598

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02983

SEQUENCE DESCRIPTION:

GATCACGCAA TAATGACTAT GTAATCTCAA AAAACAAATA AAATATTCTT AACATGGCAA 60

A

61

SEQ ID NO:2599

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02984

SEQUENCE DESCRIPTION:

GATCCAAGCA GTGTGTCCT ATATACTGA TAAAAGCACT TGGTCTTNGA TTATCAGAAA 60

SEQ ID NO:2600

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02985

SEQUENCE DESCRIPTION:

GATCATTTTG CACATAGCTT TATCACTTT TAAACATTAA TAACTGATT TTTTAAA 58

SEQ ID NO:2601

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02986

SEQUENCE DESCRIPTION:

GATCTTTGCA GTTTTNGAC AATTACAAGT AAAGCTGCTA TAAACATTTG TATGCAAA 58

SEQ ID NO:2602

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02987

SEQUENCE DESCRIPTION:

GATCGACACG CAGCTAGCCT CCTGCATTGT ATGGTTATAA ATAGCACCCT AGTGAGTNCT 60

GTCGTCCAGT CAAA

74

SEQ ID NO:2603

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02988

SEQUENCE DESCRIPTION:

GATCCTGGGG CAACCCATCT GGTCTCTGA ATAAAGGTCA AAGCTGGATT CTCGCAAA 58

SEQ ID NO:2604

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02989

SEQUENCE DESCRIPTION:

GATCACGTTT CGTGTTTCATA CTCAACGTTA ATAAAAGGAG AGAGTTTGTA GTGAAA 56

SEQ ID NO:2605

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02990

SEQUENCE DESCRIPTION:

GATCGCTGTG CCGGCATAT AGTAGGTGTT CAATAAATGC CCTGTGACTC TCAAA 55

SEQ ID NO:2606

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02991

SEQUENCE DESCRIPTION:

GATCTATCCT CAACAACAAC AGAAAAAAGG AATAAATAT CCTTTGTTTC CTAGTGAAA 59

SEQ ID NO:2607

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02992

SEQUENCE DESCRIPTION:

GATCCATTTT AAAATTTGTA ATTCAATAAA GTTTTTTTTG TTGTTAAACA TAAA 54

SEQ ID NO:2608

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02993

SEQUENCE DESCRIPTION:

GATCTTGAT TCAGTCAGGT TAAACAACG GACAATAAAA GAATGAACAC AAA 53

SEQ ID NO:2609

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02994

SEQUENCE DESCRIPTION:

GATCTGGGGT GGGAGTAACA GGCAGAAAT GATTAAATG TTTGAGCACA AA 52

SEQ ID NO:2610

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02995

SEQUENCE DESCRIPTION:

GATCCTTTTT TTTTCCACA AAATTTTAC AAATAAAAAA TGTTCCCTA AA 52

SEQ ID NO:2611

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02996

SEQUENCE DESCRIPTION:

GATCTCAAAG TGCCTTCTGA AGCATCAGAG ATTAAATATT GTTCAAATA AA 52

SEQ ID NO:2612

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02997

SEQUENCE DESCRIPTION:

GATCTGAATG GGGCTTNCCT GATGTTGGTA TCTAAGGCTT AGGCCTATAG ATN 53

SEQ ID NO:2613

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02999

SEQUENCE DESCRIPTION:

GATCTTGAAT GTATTTTCTT AAGTTTATTA ATAGACATTT TCACAATAAA 50

SEQ ID NO:2614

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS03002
 SEQUENCE DESCRIPTION:
 GATCTATCTG GAAAATGNAG GACTCCGAAT AAAAAGCTAT TACTAATAAA 50

SEQ ID NO:2615
 LENGTH:51
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03005
 SEQUENCE DESCRIPTION:
 GATCAGGGGA AATNTTTAAG CTAAATAAAT CTGGGGGGTT TTTTATTCAA A 51

SEQ ID NO:2616
 LENGTH:165
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03028
 SEQUENCE DESCRIPTION:
 GATCGAATGG TATATATTAG AAATTACATC TGTTGTAATT AAAATTGTGT GAGCAATTAA 60
 ACATGGTTGA NTTTTTCAAG CAAAAATCAG TTCATCTTTT GATGTAATTT TCTAGGCTAA 120
 ATGGCAATCT CTGAAAGATG AATAAAGCTA TATTTATTTA GCAAA 165

SEQ ID NO:2617
 LENGTH:254
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03030
 SEQUENCE DESCRIPTION:
 GATCACATTT TAAGCATCTN TCTCTCCTAC TCCATTTAGA AAAATAAGTA ACAGGTGAAA 60
 TGTGGTCTCA GTGTTAACGG GATAATTCTG CTACCGGCTC CTCCTGTATG ATTCTNAAAT 120
 ACACTACTGA ACGAGCTCTG GCTGGTCCTT TCTATCCTGG ATGTGGTTCT TCTGTGTAGC 180
 AATTCCTTGA NGTCCAGGTT GGAAAGATGT ACTCTTCTCA ACCAAGGAAA ACCTTAAATC 240
 CCGTCGTGGC CAAA 254

SEQ ID NO:2618
 LENGTH:271
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03031
 SEQUENCE DESCRIPTION:
 GATCAACCCC AGACTGGGCC AGAATGTTAG TGAAGGTTTT ATTGTGCCCG GTTGGAGGAT 60
 AACGTTCTTT GGGTACTTTT TGTGGGTTGC AAATNAACTC AATTGCCACA AGTTTTAAAC 120
 TGGTGTAAT CAAGCTTGAC TTAATGTGAT TGTNACTGTT ATATCCAGNC TATACTGCTA 180
 GCAGCTGCTC ATACTGCAGT CAATTACTGG AAGCGGATAT ATTCCTATG CAAAACTGT 240

TTAAACAATA AAATGAGCTA TGCTACAGAA A

271

SEQ ID NO:2619

LENGTH:489

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03053

SEQUENCE DESCRIPTION:

GATCCACAGC TTAAAGATGG GAATTCAGGT ATGAAAGAAA ACAGGCAAGG AGGCACTGAG 60
 GGAGAAAGAC ACAGACTTTA TCGCTCTGTG GCTCATTGTT ACTGGAATAT NCTAAACTC 120
 TTGTNCACAT GCTATTATGA CTTATAAAGC AGCAACAGCT GAGGCGCACC AGGACACAGC 180
 TTCCATTCTT TTAACGCTCG TNCCTTAAC ATCGCTGAAA TNATTACTG TTGAAGAGAT 240
 GCCTTGCGGT GTGGCCAGCT GTGAGGAGAA AGCAGCTGGC AGTGTAGGA CATTAGTCCA 300
 CCTTCAGCGC AGGGTCTCTG GCCGGGTCTG ACTCAGAAAC CTTGGTACTC GNCCCTTGGN 360
 CACAGTGCCC AGACCCATGT AACCNACTNG NTCCTGCATT AACCNAGAAA TACCTCGGTT 420
 CTATNTGTGC ACTTAGCTGG GGAATTACCC ACTGTAATCA CCTNAATNAA NGGGTTNTAA 480
 ACATGGAAA 489

SEQ ID NO:2620

LENGTH:471

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03055

SEQUENCE DESCRIPTION:

GATCCAAAAC GCTTCGAGGC ACCCCAAATN ACCTGCCCAT TCGTNAGGAN GACCCACCCA 60
 CCCAGTGTTA TATTCTGCCT CGCCGGAGTG GGTGTNCCCG GGGGCACTTG CCGACCAGCC 120
 CCTTGCGTCC CCAGGTTTGC AGCTCTCCCC TGGGCCACTA ACCATCCTGG CCCGGGCTGC 180
 CTGTNTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCCG TGTCCTCAAT 240
 GTNTTCAGTG GGGGGCCCCC TCTTGGGTCC CCTCCTCTGC CATCACCTGA AGACCNCCAC 300
 GGCAAAACT GAATGTAANC TGTGNCCTGN GNCTCGGTCC AACTTGCGGN CCGTGTNTNA 360
 CTNAACTNAG CTCCTTTAAC GGTAAATTT CNNGGAAAAT CCCATGNTTG GGTTTTGGTC 420
 TTTAACCTTG GTAACGGTTG AAATCCAATT AAAGNTTTAA AAGTCATGAA A 471

SEQ ID NO:2621

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03056

SEQUENCE DESCRIPTION:

GATCACCATT AAATCTGAAA GTACCTTTAA AAATACTGAG ATTNCTTCA TACTGGGCCA 60
 GGNATTTNAC GAAGNACCTG CAGATGACAG GAAAGTCAAG AGCACCATAA CCTTAGATGG 120
 GGGTGTCTTG GTACATGTNC AGAAATGGGA TGGAAAATCA ACCACCATAA AGAGAAAACG 180
 AGAGGNTGAT AACTGGTGG TGGAAATGNT CATGAAAGGC GTCACCTCCA CGAGAGTTTA 240
 TGAGAGAGCA TAAGCCAAGG GACGTTGACC TGGACTGAAG TTCGCATTGA ACTCTACAAC 300
 ATTNTGTGGG NTATATTGTT CAAAAAGNTA TTGTNGTTTT CCATGGATTT AGCAAGCAAC 360

TAATTTTNC CCAAGCTNGN TTTTTCAT TANTGGTNAC GTTGGNTAAA TAAANNTTTT 420
TTTAGGNTTT TNAAT 435

SEQ ID NO:2622

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03058

SEQUENCE DESCRIPTION:

GATCTCATCA GGGGAAGGCT CTGTGATGCT GCAGGTTGAT GTAGACACAG TAAAAGGAGG 60
GCTGAAGTTG AACCCCAACT NNCTGGTGGA CTTCGGGAAG GAGCCCCTTG GCCCAGCCCT 120
TGCCCATGAG CTCGCTACC CTGGGGGCGA TTGTAGCTCT GACATCTGGA TTTGAACTCC 180
ACCCTCATCA CCCACACTCC CTATTTTGGG CCCTCACTTC CTTGGGGACC TGGCTTCATT 240
CTGCTCTCTC TTGGCACCCG ACCCTTGGA GCATGTACCA CACAGCCAAG CTGAGACTGT 300
GGCAATGTGT TGAGTCATAT ACATTTACTG ACCACTGTTG CTTGTTGCTC ACTGTGCTGC 360
TTTCCATGA GCTCNTTGAG GCACCAAGAA ATAACTNGT AACCTGTAA A 411

SEQ ID NO:2623

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03059

SEQUENCE DESCRIPTION:

GATCCAGGCG GGATGGAGTG TGGAGTGTGG GCACAGTGGC TTGTACAGGC CTGGNCTGGG 60
CAGACTTGCC CCGGAGTCTC AGGCCACTGC GGAAGGAGGA CGCGTGGCCA GCAGGTGCCA 120
CCAGGAGAGG AGAGGAGGGC CAGGCTGAGC TGCATCTNTG GACTCCAAGG AGAGCTTGA 180
GAGGTGACTG AAACCCTGCC CCACCCCGAG CCTGTNTCCA TCTGTGGGTC CTTGGGCAA 240
TTGCCTCATC TCTCTNAGCC TCGAATGCGT AGTTTCAGGA CTAAGTAGGG TACTGTGTAC 300
CAACTGCCTC TGCCAACGGC CTGCACTGG GCANGCCTGG GGTACCTGGG CTTTGGGGNA 360
AGGAAGTAGG CCTTNGGNAG GAGGCTGGAT TGCTTACAAT TTTNTTTTNN 410

SEQ ID NO:2624

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03060

SEQUENCE DESCRIPTION:

GATCTGCGGC CCATCTACAT CTCTGTGCAG CCGCCTTCAC TGCACGTGCN GGAGCAGCGG 60
CTGCGGCAGG CATACTGA AACCGAGGAG AGCCTGGTGA AGCGGCTNGC TGNTGCCAGG 120
CCGACATGGA GAGCAGCAAG GAGCCCGGCC TGTTTGATGT GGTTCATCATT AACGACAGCC 180
TGGACCAGGC CTACGCAGAG CTGAAGGAGG CGCTCTCTGA GGAAATCAAG AAAGCTCAAA 240
GGACCGGCGC CTGAGGCTTG CTGTCTGTTT TCGGCACCCC GGGCCCATAC AGGACCAGGG 300
CAGCAGCATT GAGCCACCCC CTTGGGAAGG CGATACGGCA GCTCTGTGCC CTTGGCCAGC 360
ATGTTGGAGT TGGAGGAGAT NCTTGCCCT GTTGGTTTGG ACCATCCN 408

SEQ ID NO:2625

LENGTH:398

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03061

SEQUENCE DESCRIPTION:

```
GATCTCAACG AGACAAACGA TGGGTGGACC CGAACTCCCC GGTGCTCTTN GAGGACCCAG 60
TCCTTTNTGC CTTGGCAAAA AAGCACAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
AGCTGCAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
ACGTGCAGGT TTTTNANTTC CAGTTGACTG CAGAGGACAT GAAAGCCATA GATGGCCTAG 240
ACAGAAATCT CCACTATTTT AACAGTGATA GTTTTGCTAG CCACCCTAAT TATCCATATT 300
CAGATGANTA TTANCATGGA GGGCTTGCC TGATGGTNTA CCAGAAGCCC TGTGTGTGGN 360
TGGGTGACGC AGAGGGACGT CTCTNTGCCG GTGACTGN 398
```

SEQ ID NO:2626

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03062

SEQUENCE DESCRIPTION:

```
GATCACAGCT GGGGAAAAA AAGCTTTTA ATTCTGTACC TTCCTAGTAG ATAAGTGAAG 60
AGCAGGGAAA GAGACCTTTA AATATTTNC TATAAAAAA TTTGTGATAA GTTCTATCA 120
AAATGGGGAG ATTGCAGAAA AGGCTTCCCT TGGNTCCCA GGAGGTGTAG CAGGTGTGAG 180
CAATATTAGT GCCATGTGCC TTTCACACAG GGTTTGCAAT TATCAGTCTG TTTCCGATG 240
NNNNGGTACA TGAAAGAGTA CACCATGTGA AGAGAAGAGA GAATGATTGA AAATGTTTTA 300
GTATAGACCT CTTCTGCAG TGGGTGCTA TTTCTAGAT TTTACTTTTT AGGGACCAA 360
NTAAANTCCT TTGTTAAACN TGGGTCAGN NAAA 394
```

SEQ ID NO:2627

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03063

SEQUENCE DESCRIPTION:

```
GATCGCACCA TTAACTCCA GCCTGGGTGA CAGAGAGAGA CCCTGTGCCN NTCAAAAAA 60
TGTTTTTTT AAACAAGAAT CTCTCAGGCA TACTGAAATN TTGAAGAGGA AATNATATTA 120
ATATCTGGGA CTTGTTTCCA AATTGGAAT TGGGCAGGG TGTAATNGT TGGCAATATC 180
AAAGAAACGA GGAGTTGGAA TNATAATTGT AGAAGCTGCA TGATAGATAC ACATTCTTTA 240
TACTTCTGTA TATGTNGAAA TTTTNTATCA AATTATAATN GTGTATAATG ACTAATTATG 300
CTTNCATTGT CTATCTGTG TGGTTATGTN ACTTGCTGAA ATNNATACAT AANGGGTCTT 360
CAACCTTAN NTGGTCTTAT CCANGGCATA NN 392
```

SEQ ID NO:2628

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03064

SEQUENCE DESCRIPTION:

```
GATCTGTAAT NATCTCTATT GGCCTGGGGT GCCTGTGCTA TAAATAAGTT TCTTCACATG 60
AAAAACACAG CCAGCCCAAG ATNACTTATC TGGGTTTAGG ATTCAATAGT ATTCACTAAC 120
TGCTTATNAC ATGAGCAATT TCATCAAATC TCCAAACTCT TAAAGNATGC TTTCGGAAAA 180
CACGCTGTAT ACCTAGATGA TGAATAAATG CAAAATCCTT GGGCTTTGGT TTTTCTTAG 240
TAAGGATTTT AAATAACTGC CGACTTCAAA AGTGTCTTA AAACGAAAGA TAATGTTAAG 300
AAAAATTGA AAGCTTTGGA AAACCAAATT TGTAATATCA TTGTATTTT NATTAAAGT 360
TTGTAAATAA ATTTCTAAAT TTAAT 385
```

SEQ ID NO:2629

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03065

SEQUENCE DESCRIPTION:

```
GATCGGGGCC CTGGGGCTGT NAGACCCCGA CCNTCTCGAG GAACCCTGCC TGAAACGCCT 60
CCATTACCAC TGCAGAGTGA GATGAGGGGA CTCACAGTTG CCAAGAGGGG TCTTGCCGT 120
GGGNNGGNTC GCCAGCCACT CACCAGCTGC ACTGAGAGGG GAGGTNGCA CACCCTCCC 180
CTGGGCCGCT GAGGCCCGCG CACCTGTGCC TTAATCTTCC CTCCCTGTG CTGCCGAGC 240
ACCTNCCCCG CCCCTTTACT CCTGGGAACT TTGCAGCTGC CCTCCCTNC CCGTTTTTAA 300
TGGCCTGCTG AAATATGTGT GTGAAGAATT ATTTATTTT GNCAAGCAC ATGTAATAAA 360
TGCTGCAGNC CNGCCTNTGC CCAA 385
```

SEQ ID NO:2630

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03066

SEQUENCE DESCRIPTION:

```
GATCCCCGGN AGTNACAGGT GCCGACGTGA TGTCGCTTCT NTGGTGCCA GCTCCCTTCC 60
TGGTCTNANA CTAGCTCTGG GGGTGGCGGG GGCCCCACA CGCTGCTCCC GCTCCACCCT 120
GCCCCGTNCTG CTGCTCTGTG CCTGCTGTCA GAGCCCTGGT GGGGGAGGAT GTGGCCACCC 180
TGAGACCCGG AGGAGACGGG CGTCTGCCTG GNITTGCGGA GAGCNGCTTA TGGGTGTGGT 240
CCGTCCAGAC ACCTTGTTTC AAGGGGATG GCGTNANGG GCAAGCAGAG CATCCCCACC 300
GNTGAGCAAG AACTTTTCT TGTTTTAAA CCATCACGTC CTCATTTAC AATTGGAATA 360
AAGTGAGTTT TTTGAAACC TGAAA 385
```

SEQ ID NO:2631

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03067

SEQUENCE DESCRIPTION:

GATCGCAAGG AACTGGGCCG CCTACTACCC CGACCTGCCC ACCCCAGAAC AGCAGCAAGA 60
 CATGGCCCCAG TTCATACATT TATTTTCTAA GTTTTACCCC TGTAAGGAGT GTGCTGAAGA 120
 CCTAAGAAAA AGGTTGTGCA GGAACCACCC AGACACCCGC ACCCGGGCAT GCTTCACACA 180
 GTGGCTGTGC CCCNTGCACA ATGAAGTGAA CCGCAAGCTG GGCAAGCCTG ACTTCGACTG 240
 CTCAAAAGTG GATGAGCGCT GGC GCGACGG CTGGAAGGAT GGCTCCTGTG ACTAGAGGGT 300
 GGTCAAGCCAG AGCTCATGGG ACAGCTAGCC AGGCATGGTT GGATAGGGGC AGGGCACTCA 360
 TTAAAGTGCA TCACAGCCAA A 381

SEQ ID NO:2632

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03068

SEQUENCE DESCRIPTION:

GATCCGTAAG TCCATGACCA AGGAGGCCAT CCGAGAGCAC CANATGGCCC GCACTGGCGG 60
 CACGAGACAG ACCTGTNCAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
 GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180
 AACCCTGGA AGTTCTGCTG ACCCCTCGTG TAGATGTGCT GCAGCCTTGG GCCCTCCCCG 240
 GCCCACGTCC TCCGTTGACA CAGCTTCTNT GGAGACCCTA GAAGGCGGCA TGTCTGCCC 300
 TCAACCTGCC TGCNTGGATT GCACCTTTCT GCCCTTTCCC CNTNATTATT AAATGTTTCT 360
 TTTTGCCAAA 370

SEQ ID NO:2633

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03069

SEQUENCE DESCRIPTION:

GATCTTCTTC AAGCCATTAT TTAACTCAA GAAACTCTA GAGAAGAAAA GTGAAGAAGT 60
 CATGTTGAAG AAGATGTAAG AATGTGTCAA GACCATCCAG AAATNATATG AGAAATACTG 120
 ATATTTTAAA TGGTTGACAT CATCCAGCGA AATGAATCTA CATTAAATGT TGTTTTAACT 180
 GCGCTATGAT TAAAACCAAT CATATAGAGT TAGTNTTAC AACTACTATT CTGTTATTTT 240
 TTTTAAATC TGACAACATT TGTCTAAGT AAGATAAGCA AAAAAATTCT TCAACTCCTT 300
 TTGGCAAGAA AACTGTAACA GAAAATAANT TTTGAATGTG TACN 344

SEQ ID NO:2634

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03070

SEQUENCE DESCRIPTION:

GATCCCTGGT CCAGAAATTC ATTTACCTTC TGGGCCAGAT ACCACCAGAA TGCCCGCTCC 60
 ANATCCCTC AGACCTTTGC CGGTCCCAT ATTGGTCTG GTGGTACAGC CAGTGCCAAC 120
 TTCGCTGCCA ACTTTGGTGC CATTGGTTTC TTCTGGGTTG AGTGAGATGT TGGATATTGC 180
 TATCAATCGC AGTAGTCTTT CCCCTGTGTG AGGCTGAAGC CTCAGATTCC TTCTAAACAC 240

AGCTATCTAG AGAGCCACAT CCTGTTGACT GAAAGTGGCA TGCAAGATAA ATTTATTTGC 300
TGTTCTTGG GCTACTGNTT TTTTCCCT TGTGTGCTGT N 341

SEQ ID NO:2635

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03071

SEQUENCE DESCRIPTION:

GATCGNCAAG AAAATTNAGA TTGGCGATGG GGCAGAGCTG ACGGCAGAGT TCCTCTACGA 60
CGAGGNGCAC CCCAAGCAAC ACGNCTTCAA GCAGGCCTTC GCCAAGCCCA AGGGCCCAGG 120
GGGCAAGCGG GGCCATAAGC GCCTCATCCG NGGCCCGGGT GAAAATGGGG ATGACAGCTA 180
GGAGGCTGGA GCATNNGNCG GCCACGTNTG GACTGTGGGG CTGCCCACCT TCCGCTCCCT 240
GCCACCATCC TCCTTCCTGG GCTCCAGGAA AGTNTTCTG GGAGGTCAGG AGGGCTGGCA 300
GCTTGAACGC ACTTGACGG TCCGANGGNC ACCGGGCTTN 340

SEQ ID NO:2636

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03072

SEQUENCE DESCRIPTION:

GATCTGTCTG CNTTCCTCAA GACCATTGCA CTGAATGGTG TGGAGGACGT GCGAACCGTG 60
CTGGAGCACT ATGCCCTGGA GGATGACCCG CTGGCGGCTT TCAAACAGCG GCAAAGCCGG 120
CTAGAGCAGG AGGAGCAGCA GCGCCTGGCC GAGCTCTCCA AGTCCAACAA GCAGAACCTC 180
TTCCTTGGCT CCCTCACCAG CCGCTTGTGG CCTCGCTCCA AACAGCCCTG AACTCTGGGC 240
CTCCTCAAAC TCAGTGCTG GGTCCAGGGC CCCAGTGCTT CCAGACCAAG ACTTGGGCCA 300
CCACTTNTCC AATAAAGTAC ATCCGAGACG GCAA 335

SEQ ID NO:2637

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03073

SEQUENCE DESCRIPTION:

GATCCAGTTG TGAACAAAGA GTCCTCTTNG TGGAAAAGAA AAAAATACAT NTCCCTTTAA 60
ACGGTGGATT GAAAATAACT TTNATTTATA AAGAGAAGAC TGAGGGCGGG GATACTGATT 120
CANNAATCCT GTAGCGTGTA ATAAAAGAAG AGGAAATGGC ATGGAATCAC TGCCTCCTGT 180
GATTTGAAGG CCATTGTGAA GGAAAACAAT GCAGTGAAAG AAAGTTCTTC ATATTAGGCC 240
AGATATCATT GCATCACATT TATTTATCTT TCTGGNATTT TTATAGCCCT TAATAAAAAA 300
TATTAATA GCCTGTGCTA TTGTGTCTTA AA 332

SEQ ID NO:2638

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03074

SEQUENCE DESCRIPTION:

```
GATCAAGAAT TTGGTGTGGA CGTTGGCCCT GTTTGCTTTT TATAAACCAA ACTCTATCTG 60
AAATCCCAAC AAAAAAATT TAACTCCATA TGTGTTCTC TTGTTCTAAT CTTGTCAACC 120
AGTGCAAGTG ACCGACAAAA TTCCAGTTAT TTATTTCCAA AATGTTTGA AACAGTATAA 180
TTTGACAAAG AAAAATGATA CTTCTCTTTT TTNGCTGTT CACCAANTAC AATTCAAATG 240
CTTTTNGTTT TATTTTTTTT ACCAATTCCA ATTTCAAAAT GTCTCAATGG GGCTATAATA 300
AATAAACTTT CAACACTCTT TTATGGTNAA CCAA 335
```

SEQ ID NO:2639

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03075

SEQUENCE DESCRIPTION:

```
GATCAAGCCT GCCTCAATCA GTATTCATAT TTATAGCCAG GTACCTTCTC ACCTGTNAGA 60
CCAAATTNAG CTAGGGGGGT CAGCCAGCCC TCTTCTGACA CTAACACC TCAGCTGCCT 120
CCCCAGCTCT ATCCCAACCT CTCCCAACTA TAAACTAGG TGCTGCAGCC CCTGGGACCA 180
GGCACCCCA GAATGACCTG GCCGCAGTGA GGCGGATTGA GAAGGAGCTC CCAGNGGGGG 240
CTTCTGGGAA GACTCTGGTC AAGAAGCATC GTGTCTGGCG TTGTGGGGAT GAACTTTTGT 300
TTTTGTTTCT TCCTTTTTTA GTTCTTCAA GATAGGGAGG GNAGGGGGGA ACCATGAGCC 360
TTTGTGGCT AATCANTCCC AAGN 384
```

SEQ ID NO:2640

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03077

SEQUENCE DESCRIPTION:

```
GATCAAAGGT TTAAAGTCTA ACTTCTAAGA TATATTTGCA GAAAGAAGCA ACATGACAAT 60
AGAGAGAGTT ATGCTACAAT NATTTCTTGG TTTCCACTTG CAATGGTTAA TTAAGTCCAA 120
AAACAGCTGT CAGAACCTCG AGAGCAGANC ATGAGAACT CAGAGCTCTG GACCGAAAGC 180
AGAAAGTTTG CCAGGNAAAA AANNGGCATC ATTATTACCA TCGATTAGT GCCTGGTTAA 240
NGNGGNAAGC TACTTNGTT TNAGTGGCAG CCNCNTNGCA CGTGGTTTGC TATGNAGGTG 300
AANGGTTTCC CAATTCCTTC AGGCTTTTN GGGGGTTTTT GGGCTCTNCC TN 352
```

SEQ ID NO:2641

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03078

SEQUENCE DESCRIPTION:

```
GATCAAACAG CTCTAAGTAT GAAGCAAGAG TAAAGACTAA GGTTCGAGA NCATTCCTAC 60
TCACATAAGT GAAGAAATCT GTCAGATAGG AATCTAAATA TTTATAGTGA GATTGTGAAA 120
```

GCAACCTTAA AGTTTTGAAG AAGACTGATG AGACTAGGTG CNNNGCTTCC TTTCATCAGG 180
 TATCTTTCTG TGGCATTGA GAACAGAAAC CAAGAAACAT GGTAATTNCT AANTTATGAG 240
 GCTTTGCTTT TTGTTTGCTT TTAAGTAGAA AACCATGTTG GCAACATTGA GTTTTGGNGT 300
 TGATTGAGAT AATATGNCTT N 321

SEQ ID NO:2642

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03079

SEQUENCE DESCRIPTION:

GATCTTTGGC TGGAAACTA GAATTTATAG CAGTTTATTA ATGATACCTT AAATNACTCA 60
 GGACTTAATG TAGCATTGCA CTTCTGTGTA CAGTAAACT GCTTTGTTTT ACTAAAGAGA 120
 AAAATGTGAG TGGAAAAAAT ATGTATGTGT TATATACTCA AATGTATATA ATNCTATCTA 180
 TAGATTTATA TATGTATACA TTCTGTACAG TAGTTCCATC AAAATATGTA ATAATTCACA 240
 CCAATTTTAT TAAATGTATT TNCTTTTCA AAATTTAAAT TGAGCTGCTA TCAATATTAA 300
 ATGAAGTTAT GGCATCTAAA 320

SEQ ID NO:2643

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03080

SEQUENCE DESCRIPTION:

GATCCCTTCG ATGTGGATTC AGGGAGAGAG TTTGGAAACC CCAACAGGCC TGTGGCATGC 60
 ACCCGGCTGC CCTCGGACAC TGATGACAGT GATGCGTCTG AGGACCCAGG GCCTGGCGCC 120
 GAGCGCGGAG GAGCCAGCAG CAGCTGCTGT GAAGAGGAGC AGACGCAGGG ACGGGGGGCT 180
 GAGGCCAGGG CCCCGGCTGA GGTTTGGAAA GGAATCAAGA AACGGCAGAG AGACTNAGGG 240
 TTGCAGACAC ATATATTTTT GAGGCTGGGT GACGAGAAAA TCTAGAGACA TGAGGGACAT 300
 AAA 303

SEQ ID NO:2644

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03081

SEQUENCE DESCRIPTION:

GATCCAGACG CAAGANGGCT GTCCTCTCTA AGGAATATGG TTTTTNCTT CTAAGTGGT 60
 CTGCCAGCTT TATAATGGTG GCCCACCTAG CCATCANTGT TTCCAAGGCC CGCAAGANGT 120
 ACAAAGTGA GTATCCTATC ATGTACAGCA CGGACCCTGA AAATGGGCAC ATCTTCAACT 180
 GCATTCAGCG AGCCACACAG AACACGTTGG AAGTGATATCC TCCCTTCTNA TTTTNTAG 240
 CTGTTGGAGG TGTTTACCAC CCGCNTATAG CTTCTGGCCT GGGCTTGGCC TGGATTGTTT 300
 GGACGAGTTC TTAN 315

SEQ ID NO:2645

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03082

SEQUENCE DESCRIPTION:

GATCCTTCTT GGCCCCAGAA AGTCATTTGG CATGGCTCCA GCCCCCATGG CATCCGCTTN 60
 TGGATAACTA CTGTGAAGCA TGGCGAACCG CGGACACAGC GGTACCGGA CTGCCTCCC 120
 CGCTGAGCAC GGGGAAGATT CTGGACCAGA AAGCATAAG CTGTGCTAAT CGGGCTAATT 180
 GTCCTATGTA TCGAAAACAG TTTCATGNCA GNCGTTAGGA AGTAATTGGC TTCTTNATGA 240
 TTCTTAAAN GNGTTTTCAA TTTTCCTAA TGNGAAGNGT TGNGACTGAA ATCTAAATG 300
 TTTANTTGTG NAAA 314

SEQ ID NO:2646

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03083

SEQUENCE DESCRIPTION:

GATCACTGTG GACAGGGTGC AGCTCTACCA GTTCCTGTTT CTNCTGAGCC AGACCCTCTT 60
 CAGGGAAGGG ACCAATTAAT TTAAAACTC ACTTGAAGCA CAGCTGGTCA TGGGGCTTGG 120
 TATAAGTTC CTATTTCCAC CCTGATACTT CCAATTCCTG GAACCCAGC CCACTCCNCC 180
 ATCCCTCCTC CCTATCAAAC TAGTATAATG ATTTTGAATC GGTACAGTGT GTTTAACTGT 240
 AACTAAGTTC GACAGACTAT TATTATCTTT GTAATAAATT AACCTAGCAA TAAAAATTAT 300
 TCTGTNTAAA 310

SEQ ID NO:2647

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03084

SEQUENCE DESCRIPTION:

GATCTATTAA GCTTGANACA TTANGTNTCA TCACGCACTG AAGACAGGAA GCAGTTCAC 60
 GAGTCAGCTG GTTCCCAAGC TCGCACAGAA GGTGATAAGT TACTATCAA TGCCAGTNAG 120
 AATCTNCTTA TAGAATAACC TGGGCCCAAG TNATTTTNGT ACAAACCTTG CCCTTCTTTG 180
 GTTTAATTTN CTATGTGCTT TTAGGTGTGA ATCCAGATAT GCGGTCTTAA TTCCTTTGGA 240
 AATACACAGT TCGTTTAGTT ACTGTACACT CTGTTTGTTC AATAAACTGC ATATCANCTT 300
 CCNACAAA 308

SEQ ID NO:2648

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03085

SEQUENCE DESCRIPTION:

GATCAGCAGC CCCTGAGCGG AGAAGAGGAG CTAGAGCCTG AGGCCAGTGA TGGTTCAGGC 60

TCCTGGGAAG ATGCAGCTTT GCTGACGGAG GCCAACCTGC CTGCTCCTGC TCCTGCTTCT 120
 GCTTCTGCCC CTGTCCTAGA GACTCTGGGC AGCTCTGAAC CTGCTGGGGG TGCTCTCCGA 180
 CAGCGCCCCA CCTGCTCTAG TTCCTGAAGA AAAGGGGCAG ACTCCTCACA TTCCAGCACT 240
 TTCCACCTG ACTCCTCTCC CCTCGTTTTT CCTTCAATAA ACTATTTTGT GTCAGCTTCA 300
 AA 302

SEQ ID NO:2649

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03086

SEQUENCE DESCRIPTION:

GATCAGCGAG CTACCANGAC CAGAGACCAA CTCAGCTAC AGCAGAAGNA TTTTCCCAAG 60
 CCTGCTGACC ACAGTCACAT CACCCATCAG CACATGGAAG GCCCCTGGTA TGGACACTGA 120
 AAGGAAGGGC TGGTCCTGCC CCTTTGAGGG GGTGCAAACA TGAAGAGCCA 180
 GAGGCTGTGT AGAGGCTCCT GCTCCACCTG CCAGTCTCGT AAGANATGGG GTTGCTGCAG 240
 TGTGGAGTA GGGGCAGAGG GAGGGAGCCA AGGTCACTCC AATAAAACAA GTCATGGCA 300
 AA 302

SEQ ID NO:2650

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03087

SEQUENCE DESCRIPTION:

GATCCCAGCT GATGTAGACC CTCTCACCAT TACTTCATCC CTGTNATCTG ATGGGGTCCT 60
 CACTGTGAAT GGACCAAGGA AACAGGTCTN TGGCCCTGAG CGCACCATTG CCATCACCCG 120
 TGAAGAGAAG CCTGCTGTCA CCGCAGCCCC CAAGAAATAG ATGCCCTTTC TTGAATTGCA 180
 TTTTAAAAA CAAGAAAGTT TCCCCACCAG TGAATGAAAG TTTTGTGACT AGTGCTGAAG 240
 CTTATTAATG CTAAGGGCAG GCCCAAATTA TCAAGCTAAT AAANTATCAT TCAGCAACAG 300
 AAA 303

SEQ ID NO:2651

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03088

SEQUENCE DESCRIPTION:

GATCTCAGCT GGAAGTTCTG TTTGGAGCCC ATTTCTGTNA GACCCTGTAT TTCAAATNTG 60
 CAGCTGAAAG GTGCTTGAC CTCTAATTC ACCCCANAGT TGGAGTTCTG CTCAAGGAAC 120
 GTGTGTAATG TGTACATCTG TGTCCATGTG TGACCATGTG TCTGTNAGGC AGGGAACATG 180
 TATTCTCTGC ATGCATGTAT GTAGGTGCCT GGGGAGTGTG TGTGGGTCCT TGGCTCTTGG 240
 CCTTTCCCTT TGCAGGGGTT GTGCAGGTGT GAATAAAGAG AATAAGGAAG TTCAAA 296

SEQ ID NO:2652

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03089

SEQUENCE DESCRIPTION:

GATCTNACGG CCAGGCCTCT NTCCTGCTGC TGTTTTTAAT TTTCCCAGGT AGTGGGAGAG 60
AGGAAAGGAG GGAAGGCAAG ATTCTTTCCC CCTCCCTGCT GAAGCATGTG GTACAGAGGC 120
AAGAGCAGAG CCTGAGAAGC GTCAGGTCCC ACTTCTGCCA TGCAGCTACT ATGAGCCCTC 180
GGGGCCTCCT CCTGGGCCTC AGCTTGCCCA GATACATACC TAAATATATA TATATATATA 240
TGAGGGAGAA CGTNTCACCC AGNTTTNATC ATGCTGGAAA GAGTGTATGT N 291

SEQ ID NO:2653

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03090

SEQUENCE DESCRIPTION:

GATCTAAAGG GTGTAAAAAT ATTGATACTT CAATATTTCA CTTGCTGCCA GGAAAAACAA 60
AATTCTCAAT CTTTTGTAAA TGGGAGGAGG ACTTTTGCAT ACATTTTAC TCTTTAAATA 120
ACGACAACGA CACTTATACT GTCATAATAA CAATNATGTA TTTCTTTGTG GTTTTAATTT 180
TTTTTGTAAT TTTACATAAA ACAGTTATTT TCTATTTTNA CGCAGATAAA TATTTGTGCA 240
TAAATGTAA AAATAGTAAA ATGAGAAAAA TAAACTATT ATACAGTAAA 290

SEQ ID NO:2654

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03091

SEQUENCE DESCRIPTION:

GATCTGTCTT CAGCTCTGGA CCCAATTCCC CTTACTTCAT TTTGGCAAAC ACTAAGTCAA 60
ATAGTGAAT GCCTGTCACT ACATAGAACC TATTACCTGG GGCAAATACG AACAGATTGA 120
GTTTCCTTCA TCTTGTGTAA ATATGATGAA ACAGAGACCT GGTAAGTTGG TGACACTGTT 180
AAACCCTTTT NGGGATAAAG CCAAATGTAA ATGGAAACAT TAAACAGATA ANTTGTGGTG 240
TTGAGACTTT TCTGAATTGA GAAAAATAAA TGTAATTTTG GAAGAAA 287

SEQ ID NO:2655

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03092

SEQUENCE DESCRIPTION:

GATCTGACCG GCTTCAAGCT CAAGCCCTAC GTGAGCTACC TCGCCCCTNA NGAGCGAGGA 60
GACGCCCCCTG ACGGCCGCGC ACTCTTTCAG CGAANCNGTG GCGCCTGCCA TCGAAAAGNA 120
CTTCAAGGAC GGTACCTTCG ACCCTGACAA CCTGGAAAAG TACGGCTTCG AGCCCACACA 180
GGAGGGAAAG CTCTTCCAGC TCTACCCAG GAACTTCCTG CGCTANTGGG CGGGGGAGGG 240

GCGGCCTGCC CTCATCTCAT TTCTATTAAA CGNCTTTGCC AGCTAAA

287

SEQ ID NO:2656

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03094

SEQUENCE DESCRIPTION:

GATCGTGGAG GAGGGACAAC GCTGCCACCG NTTGNGTGC AACACGTGCC CCTACGTGCA 60
 CAACATCACC CGCAAGGTAA CAAATCGGAA GTACCCAAAA CTGAAAGAAG TGGATGATGT 120
 GCTTGGTGA GCAGCTGCCT GGGAGANTGT TGACTCTACT GCAGAGTCGT GTCCCAAATG 180
 CGAACATCCT CGTGCTTACT TCATGCAGCT TCAGACCCGC TCTGCAGATG AGCCGATGAC 240
 CACCTTCTAC AAGTGCTGCA ATGCTCAGTG TGGACACCGC TGGNGGGATT NGGGNCAGGT 300
 NTGGCCCAGC TGCCCTNGTG TGTGCTTGCC TTGTNCCTCN N 341

SEQ ID NO:2657

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03095

SEQUENCE DESCRIPTION:

GATCCACAAG GTTGTCTGCT AAACCTGCTC CTCCAAAGCC ACAGCCCAAG CCTAAAAAGG 60
 CCCCTGCAAA GAAGGGAGAG AAGATACCCA AAGGGAAAAA GGGAAAAGCT GATGCTGGCA 120
 AGGAGGGGAA TAACCTGCA GAAAATGGAG ATGCCAAAAC AGACCAGGCA CAGAAAGCTG 180
 AAGGTGCTGG AGTTGCCAAG TGAAGTGTGT GCATTTTGA TAACTGTGTA CTTCTGGTGA 240
 CTGTACAATT TCAAATACTA TTTTATCA AGTTTAAA 279

SEQ ID NO:2658

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03096

SEQUENCE DESCRIPTION:

GATCTGAATG TNCAGTTCTA GCCAAGGTAG ATTTTACTTT CAACTTTTCA ATCAGTATCA 60
 CTTTCTGTGC TTAATATTTT GGTGTACCT TGTCTGTTTT CATTGTCTA AAATNCTGTA 120
 GAGATGACTA AAATTTGACA TAATGGTGTA AATGGATTGT NAAGGTAAT TTCAGTTGAN 180
 GATTAANGCA AGANGCCATT TTCCCATGA CTTTGGTTTT GTTACATTT TNCCCTTTCA 240
 GTTAGTATAC ACTACACGTA CTGTAATAAA GTNCAATAN 279

SEQ ID NO:2659

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03097

SEQUENCE DESCRIPTION:

GATCTTTNCT AAAGCAAGGC CTTGAGCAAG TAGGTTGCTG TCTCTAAGCC CCCTTCCCTT 60
 CCACTATNAG CTGCTGGCAG TGGGTTTNTA TTCGGTTCCC AGGGGTTGAG AGCATGCCTG 120
 TGGGAGTCAT GGACATGAAG GGATGCTGCA ATGTAGGAAG GAGAGCTCTT TGTGAATGTA 180
 AGGTGTTGCT AAATATGTTA TTGTGGAAAG ATGAATGCAA TAGTAGGACT GCTGACATTT 240
 TGCAGAAAAT ACATTTTATT TAAAATCTCC TAAA 274

SEQ ID NO:2660

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03098

SEQUENCE DESCRIPTION:

GATCTGCCTG CNTTGGCCTC CCAAGGTGCT GGGATTACAG GTGTGAGCCA CCACCCCAG 60
 CCGCCTCTAT GCTTTTGGNT TCTTTGATAT ATCTAACTT AAGGTCAGAA CAGAAATTCA 120
 TGTGCTGAAC AGAATGGATT CTTTTGCAG TACCAATCCA ATTGAATCCT CTTTTATTT 180
 TCCTGCGTCC TTACCACTCA CTTTGATAGT GCTAACTAAC CTACACTATG GGGGTATTTC 240
 ATGANTTAAG TATGATAAA 259

SEQ ID NO:2661

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03099

SEQUENCE DESCRIPTION:

GATCTGTGTT TGTAATACTG GTTGTAATTA ATTTTTTTAA TTCATGAACN AGCGGAAAAT 60
 TTATTAAATT AACTATTAAC CACATTCACC TTGTAAATGA CTGTATAAAA CTNGTNGACA 120
 ATGCACTGAC TTTAGAAAGA TGTTAATGTG CATAANTNGA GTGTAAATAA NATAGTGTG 180
 ATGTACTGAN ATATGACCTG TATAANNNGT ATTAGTAATT GTNTATGGGG TGTACCTGTT 240
 TATCTGTAAC TGTNATCCAA ACAAATNAAA TN 272

SEQ ID NO:2662

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03100

SEQUENCE DESCRIPTION:

GATCTATCTG GNNTGTGCNT TAGACTNGAT GAGAAGGTGT GAACTCTGCA GAAAGTCTCT 60
 CCTTCATCAC TGAATTCAGT CACTTGGAGA TGACAACTTC AAATGCTAAC CCGATGACCC 120
 CAGAAAACCG TGTGAGATTC GTACCGAAGA ACCTTGTTGA ATCCCTTTNC TTAGGCCCAA 180
 CCTGGTCGAT AGCTCGAGAA AGANTNTTTN CCAAGGAAAT GTCTCGGATA TGGGTACTGT 240
 ATTTGAAAGC TGTTAGCTTT GTCAACACGN 270

SEQ ID NO:2663

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03101

SEQUENCE DESCRIPTION:

GATCATGAAT CAAGCCCTGG AACAGATGAA GACAAAAGCG GATGAGTGAG TTATATAAAC 60
 TTACTTCCAT TCTGTTTCGG ATTTAAGTT TGAGAGACTT GCTAATNAAT CTCCTTTATG 120
 TTGTTTTCCT TTTCATTGTT TTTGGATTGT TTTATGTTG TCCTTTTTTT TCTTAATGTG 180
 GATTTCATTG AGTTGATTTT TTGATAATCT GCAATCTGGA TAATTTGTAC TGCTAAAGTT 240
 TTAATAAACT CGACATGAGA AAAACAAA 268

SEQ ID NO:2664

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03102

SEQUENCE DESCRIPTION:

GATCAAAATA GTAATAAATC AACAAATAAT TTTTGATTGA CTGGTGGAAT TAGATTTACT 60
 AAATAAAAAT GGCTTAAATT TTGACTGTAC TAACTATAAA TGTAATGAAT TATAATAATT 120
 ATAAATGGTA TAAATGCATT CTACAATGTG ATTATTTTCT GTATTTTAGT ATATAGTATA 180
 AAATGGAATT ATGGGGTTAA AGTACTTTTA TTACATTCT TAATCCATTG TTTTACCTA 240
 ATAAATTTT CTCCTCTATA TTCCAAA 267

SEQ ID NO:2665

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03103

SEQUENCE DESCRIPTION:

GATCCGAATC TGTGCCCAGC GCTAAAGGCT CAGTGTTAGC ATGGCTNNN CTGNCCGGTG 60
 TGCCATATTC TTGTTGGAGA TGAACCGTAG CACCAGAGCC CATTCTTCCT TGTCAGTCTT 120
 GGCCCAAAGA TGTCACCATT CCTAGTTATT TGTCACCACA TAATTGGTGT TGATTGGAAA 180
 CTTTTCTGA GATGGGACAG AACTGCTGGG TTGTCTTTT CCATGTAACT TAAGCATAGT 240
 AATATAAATA AAGTAATAGT TGGAAA 266

SEQ ID NO:2666

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03104

SEQUENCE DESCRIPTION:

GATCCTCCCT GTCATGCCAC ATTTCACTGA TTGGAATGTG GAAATGGAAA AGGAATTTAG 60
 GATGTGCATT TTCACCTGAG GTTTCCTGTC ATCCCTGCAG TGCCAAAGCC CCACCTTCAG 120
 GGACCACCTG GAATGTGTGA GGGGCTGACA GCACAGTAAC GTGCATACAT ATCTGCAGGG 180
 CTGGAATGGA AGCTTTAAAG GTGGTAGTGA TTTTNATTTT GGAAGAATCA TGTTACCTTT 240
 TTGTTAAATA AAATTTGTAC TCAAA 265

SEQ ID NO:2667

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03105

SEQUENCE DESCRIPTION:

GATCCAGTGT CCATGGAAAC ATTCCCACAT GCCGTGACTC TGGACTATAT CANTATTGG 60
 AAAGCAGGGT TCCTCTGCCT GCAAACAAGC CCACGTGGAC CAGTCTGAAT GTNTTTCCTT 120
 TNCACCTATG TTTTAAAGTA GTCAAACCTC AAGAAACAAT CTAAACAAGT TTCTGTTGCA 180
 TATGTGTTTG TAAACTTGTA TTTGTATTTA GTAGGCTTCT ATATTGCATT TACTTGTTT 240
 TTGTAACCC TGATTCTCCC TTTNCGGATA CTATTGATGA ATAAAGGANT TAANGTGGAT 300
 AAA 303

SEQ ID NO:2668

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03106

SEQUENCE DESCRIPTION:

GATCAACCAA GGCAGATGTG ACAGCAAGGG CCACGGACCC CATGGCAGGG GTGGCGTCTT 60
 CATNAGGGAG GGGCCCAAAG CCCTTGTTGG GGGACCTCCC CTGAGCCTGT CTGAGGGGCC 120
 AGCCCTTAGT GCATTCAGGC TAAGGCCCT GGGCAGGGAT GCCACCNCCTG CTCCTTCGGA 180
 GGACGTGCCC TCACCCCTCA CTGGTCCACT GGCTTGAGAC TCACCCCGTC TGCCAGTAA 240
 AAGCCTTCT GCAGCAGCTG AAA 263

SEQ ID NO:2669

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03108

SEQUENCE DESCRIPTION:

GATCTGGCCT AGGTCCCCC TTTNTNCTGT CCCCTGTNTT TAAGTCGGGA TTTTACAGA 60
 GGGAGCTGTC TCCAGACAGC TCATCAGGAA CCAAGCAAAG GCCAGATAGC CTGACAGATA 120
 GGCTAGTGGT ATTGTGTATA TGGCGGGGAC GTGTGTGTCA TTATNATTG AGTTATGCTG 180
 TTGTTTAGGG GTAAATAACA GTAAATAATT AATAATAATA ATAATAATAN TAATAATAAN 240
 GGNGCNGACG TTCTTAAA 258

SEQ ID NO:2670

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03109

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA TCACACCTGG 60
 TCAACTTTCT TTTGATTAGT GTTTTGTGG TATATCTTTT TCCATCATGT TACTTTAAAT 120

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ATATCTATAT TATTGTATTT AAAATGTGTT TCTTACAGAC TGCATGTAGT TGGGTATAAT 180
TTTATCCAG TCTAAAAATA TCTGTCTTTT AATTGGNGTT TAGACAATTT ATATTTAATA 240
AAATGGNNGA ATTTAAA 257

SEQ ID NO:2671

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03110

SEQUENCE DESCRIPTION:

GATCAGATGT NGCTCAGAAA CTTTCATTGT TTACCTAATA ATTTAATATC ACTAGTTTCC 60
TAGTGGGTCA AGCAGATGCA AAANCCAGCT TATTCCTCC TATGTNCTCT CAAGCTTATN 120
GCTTATTNA AAGTAAAANC CTGAAAAGG AAAATATTAG GTTGGTGCAA ACGTAATTNC 180
GGTTTTGCCA TTGTNGAAAT TTGCCGTTTT ATATTGGAGT ACATTCTTAA NTAAATGTGG 240
TTATGTTATA CATCAA 257

SEQ ID NO:2672

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03111

SEQUENCE DESCRIPTION:

GATCAATTAC TGTCTCACT TAGAACAAAG CCTGAGTCCG AGAATATTTA TATTTTACCA 60
ATATATGCCT GTTACAAGAG AAGGAAATAT GAGTTATTTA AGTTAACTT TTTTATGTGA 120
ATTCAGAGTT TATTTATCGA GGGAAATATG TACAAAGAAG CTTCAAATGG AATATTTACC 180
GACATTCCTT ATACATGACA GACACTNGGC TACATGGGAA GATGATGTTA ATAATAANNT 240
GATTTTAAAN TGAAAA 256

SEQ ID NO:2673

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03112

SEQUENCE DESCRIPTION:

GATCTGGAGA GGATTAGGGA CGGCTCTTGT GGGCACATTT TNNCTCTAGT TTCATGGGTG 60
GAGATGGCAT CTCCNGTGGT CTGCAGCATG CAAGTAAAGA CACCAGGTGG CACCATTNAT 120
NAGCTTTCAA TCCCATGGAG AGGTCCCATC ATGTAAC TNC CAAGAGGTG AAGGAACCAA 180
CTACCTCTTG CATATTGTNG CTAATGGTTC TNGCCTTCTC CTTCCAGACT TGGGAAATAA 240
NTTTNAAAAT NGTAAA 256

SEQ ID NO:2674

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03115

00960

SEQUENCE DESCRIPTION:

GATCTACCTT GGTGATTGG ACCCTGGTTG CTTTGTGTCT AGTTTCTAG ACCCTTCATC 60
 TCTTACTTGA TAGACTTACT AATAAAATGT GAAGACTAGA CCAATTGTCA TGCTTGACAC 120
 AACTGCTGTG GCTGGTTGGT GCTTTGTTTA TGGTAGTAGT TTTNCTGTAA CACAGAATAT 180
 AGGATAAGAA ATAAGANTAA AGTACCTTGA CTTTGTTTAC AGCATGTAGG GTGATGAGCA 240
 CTCACAATTG TNGACTAAAA TGCTGCTTTT AAAACATAGG AAAGTAGAAT GGTGAGTGC 300
 AAATCCATAG CACAAGGTAA ATTGAGCTNG TTANGGCAAT CAGGTAAAAT AGTCATGNTT 360
 CTNTGTNATG TAANCCCGTA AATGANTGTT CCTGGTTTCN CGGTGGTTTT TTNANGGNC 420
 NCNTTNANNT TTN 433

SEQ ID NO:2675

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03116

SEQUENCE DESCRIPTION:

GATCAGAAGA AAGAAAGACA ACTTTCCTCT GCGCGGAACA CTCACACGGA AGGGCTGGCC 60
 GCCTCCCTGA GCCGGCTGGG AGTNGACGAC AGGACCTACC TCCCCAGAGC AAGGGCCTGG 120
 GGCTTCCCGC CAAAGCTGCC GCGGAACCCC GCTAGTGCGA CCACCCTCCC TCCGTGCGTA 180
 TGTCCTGCTT TCCAGCTGAA CCCAAACTAC AAGTGGGTTT AAAAAAATAA ACACCACCAC 240
 CAAAAACAAA 250

SEQ ID NO:2676

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03117

SEQUENCE DESCRIPTION:

GATCTGAAAA AGATGGTCAT TCCGGACTCC TGACGCCGCC AGTCCCGCGG TGAGACGTGA 60
 GCNCCATTGG GTCCAGTGGC CTCTNTTTCC GTGGCAACCT AGTAACCATT AATTTTNAAT 120
 TAAAGGAGAC AAAAAGCTCG ATGACAGCTC CAGGTCTGCT GAAGATGTCA AGAATCTGTA 180
 TTAATATACA GCAAGAGAGC ATAATTGTNT GTCCATCTTC CAGAGCAGCG AAAAATGGAG 240
 GGATAAN 247

SEQ ID NO:2677

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03118

SEQUENCE DESCRIPTION:

GATCAAAACC ATCCTGGCCA AAATGGTGAA CCCTGTCTCT ACTAAAAATA CAAAAATTAG 60
 CTGGGCATAG TGGCACGCGC CTGCAGTCCC AGCTACTCAG GAAGCTGAGG CAGGAGAATC 120
 GCTTGAACCC AGGAGGCAGA GGTGCTGTG AGCCGAGATT GCACCACTGC ACTCCAGCCT 180
 GGGCAACAGA GTGAGACTCC ATCTGAAAAA AAAAAANTNC AGGNTGCAA GNTTGGCGTA 240
 ATCAN 245

SEQ ID NO:2678

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03119

SEQUENCE DESCRIPTION:

GATCAGCAGG GCTACCATCT CACTCTTCTG TAATTTTACA ACATTCTAAA GGAAGTAAAT 60
 CACCAGATTT GCTGATGTAT CAGGGTCCAC CAGACACTGC AGAAATAATA AAAACATTAC 120
 CTCAGNAATA CAGNAGGAAA CTTGTGTCTC AAGAAGAAAT GGAATTTATC CAACGTGGAG 180
 GTCCTGAATA ACCATGGTGG CTGCTGTTTG TCATCAGACA NTAGAATTGT CTTTACAATA 240
 AAGGNCTTCC AAAATGGCAG ATGNGAAACT GTATATTTAA CACCTTTAGT AANTANTATG 300
 GANNAAGTGN NATNTAGGNN ATTTAGGTGG TCCCTNGGAT TNCCGNN 347

SEQ ID NO:2679

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03120

SEQUENCE DESCRIPTION:

GATCTGGCCT GGAGAGGCCA TCCTATACCC CTTATTAGAG CCATGACAGC CTACAGAGTG 60
 AGGTGAGGTG CTCCCACCTT CCCAGATGGT TCCTTTCTGC CCCTTCCTGG AAGGAAAGGT 120
 GAGGCTGCCA ATAGCCTCCT GGCACCAGCC AGACCTCACC CTTGACCAAC CTCTCGGGGC 180
 TGGGGGTTC A TTCCTGGGGC ACTGTGGCCT GGTTTTGCTT TGAAACCAAG AAAGAGCAAA 240
 GN 242

SEQ ID NO:2680

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03121

SEQUENCE DESCRIPTION:

GATCCCCAAC AATGTGAAAA CGGCTGTCTG TNACATCCCA CCTCGGGGGC TAAAAATNTC 60
 CGNCACCTTC ATTGGCAACA GCACGGCCAT CCAGGAGCTG TTCAAGCGCA TCTCCGAGCA 120
 GTTCACGGCC ATGTTCCGGC GNAAGGCCTT CCTGCACTGG TACACGGGCG AGGGNATGGA 180
 CGAGATGGAG TTCACCGAGG CCGAGAGCAN CATGAATGAC CTGGTGTCCG AGTACCAGCA 240
 GTACCAGGAT GCCACAGCCG AGNAGGAGGG CGAGTTCGAG GAGGAGGCTT AGGAGGAGGT 300
 TGGCCTAGAG CTTTCAANTC ACTGGGGAAA AGCAGGGGAA GCAGTGTNGA ACTCTTTTAT 360
 TCACTTCNA GNCCTGGTCN NGTNGGNCN GTTCCCACTG TGTGCAATTG N 411

SEQ ID NO:2681

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03122

SEQUENCE DESCRIPTION:

GATCTGCGCA CGGTGCACAG CCCACCAGAG CACTACAGCC TTTTATTGAG TGGGGTGGGG 60
CAAGTGCTGG GCTGTGGTCG TGCCCTGACA GCATCTTCCC CAGGCAGCGG CTCTGTGGAG 120
GAGGCCATAC TCCCTAGTT GGCCACTGGG GCCACCACCC TGACCACCAC TGTGCCCTC 180
ATTGTTACTA CCTTGTGAGA TAAAACTGA TTAAACCTTT GTGGCTGTGG TTGGCTGAAA 240

SEQ ID NO:2682

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03123

SEQUENCE DESCRIPTION:

GATCACCTGG GGACAGAGGT GAAAGGCCTG CTGGGCCTGC TGGAGGAGCT GGCCTGGAAC 60
CTGCCCCCGG GACCCTTCAG CCCCCTCCC GACCTTNTCG GAGATGGCTT CTNAGCCCTG 120
GAGCTGGAGC CCAGCAGTTG GAGGTGGTGC ACCTGCCAGG CAGCGCCAC AGAACCAGCC 180
CTGTCTCTC GACTTCCTTC CTTAGCTTCA TGTGAAATAA AAGCTATTCT GGTCAAA 237

SEQ ID NO:2683

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03124

SEQUENCE DESCRIPTION:

GATCGGCATG GTCATTCACC AAGTGGAAGC CAAACCCTCT GTGTATTTCA TCAAGTTTGA 60
TGATGATTC CATATCTATG TCTACGATTT GGTGAAAAAG TCCTAACTGT TAGGGTAAAA 120
TTTGGACAT GTGTGGAAC AAATGTATAA TTTGTAGACA TGCAAAAAAT GTTGCCTTTC 180
AGTGTATTGA AAGCTTATGG AATCCCTGAT AACTAAACAT CTTTGCCAGC ATTAAA 236

SEQ ID NO:2684

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03125

SEQUENCE DESCRIPTION:

GATCACACAT ATCCTTCTCG AGANGAGCAG TGAATAAAT GGAATATCTT TTTAAGANCA 60
GCTCCTCTTT AACAAAAAN CTAAAAGAC AAATGTGAGA TGGGCTTAGA GTTAGTNCTC 120
TGGGAACTTG AAAGACATTT ATGCCATATT ATTTATNCAC GTGTTGTNC CTGGTGGGCA 180
AGATGCCATC TGAGGCTTCA GATGAGAAAT TGGGGTAANN TGGAAATTT NCACTN 236

SEQ ID NO:2685

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03126

SEQUENCE DESCRIPTION:

2153480

GATCAATCCC TCAAGATTTT GAAATCCTGA AGAAATTGAG AAGTATGTTG CTGAAATTGA 60
AAANGAAAAA GAAGAAAACG AAAAGAAGAA AAAAAAGAAA GCATCATGAT GAATAAAATG 120
TCTTTGCTTG TAATTTTAA ATTCATATCA ATCATGGATG AGTCTCGATG TGTAGGCCTT 180
TCCATTCCAT TTATTCACAC TGAGTGCCT ACAATAAACT TCCGTATTTT TAAA 234

SEQ ID NO:2686

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03127

SEQUENCE DESCRIPTION:

GATCTAGGCC TGGCAAGANC TCTGGCCCCA AGGCCTCCTC TTCCCAGGGG CTGCCAAGTC 60
CTGGCCCTGG CCTTGGCATA TNACCCCGNA CTGTGGGGCC AGTCACCACT AGCCTGGCTC 120
AAATATTCCC CAGGGAGACT NCTGTGTGCT GCCCGGCTNC CTGCTGGCTC TCCCCAGNC 180
CCACATCCCN TCTNGAAGAG AATGTAAAAT AAACCTGGAC ACAAGGGAAA 230

SEQ ID NO:2687

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03128

SEQUENCE DESCRIPTION:

GATCCATGAG GTCCTAGCCC CTGGCTGCCT GGATGCNTTC CCCCTGCTCT CAGCATATNT 60
GGGGCGCCTC ANTGCCCGGC CCAAGCTCAA GGCCTTCCTG GCCTCCCCTG AGTACGTNAA 120
CCTCCCCATC AATGGCAACG GGAAACAGTG AGGGTTGGGG GGACTCTNAG CGGGAGGCAG 180
AGTTTGCTTT CCTTCTCCA GGACCANTAA AATTTNTAAG NGAGNTACTA AA 232

SEQ ID NO:2688

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03129

SEQUENCE DESCRIPTION:

GATCACAAAA TGTNATAAAA CTTTAAATGT ATAAACTTT ATCAAATAAA GTTTTATTTT 60
CCCCTTTAAA ATGTATTTNT TTAGAGGCAT TACTTTTTTA AAAATATTGG TCAATTNCNG 120
ACATAAGATG TGAGGTTTAC AGTTGTATTC CAGTATTCAA GATAGATTCC TGATTTTCCA 180
ATTAGGAAAA GTAAATCCA AAATGTTAGC AAAACAAAGT GCAATATTN 229

SEQ ID NO:2689

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03131

SEQUENCE DESCRIPTION:

GATCCCATGC CCAGGTGTCC AGCAGACCTC AAGGCAGAAG GGTACCTAA CCCAGGAGTC 60

00964

CACAGACTGA TGTGACCTCA GGTTCACACA TCANTGGCCA CAGGGCAGGG CCCACCTGGT 120
 AGAAGTTTTC TGGATATGGC CAGGGTGGGT GTNTGGCTAA NTGGGCCTGA ACAGAGGGAA 180
 CCTAGGGCCC TTGGCCAATG TGATTAAAGC TGCCATCTTG AAA 223

SEQ ID NO:2690

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03132

SEQUENCE DESCRIPTION:

GATCCGCCCT GGAGAAGTGA GTGGCTGAGA CCCGGGTGGG GCCCTCCTAA CCTTGGNTCT 60
 GGGGGCTTCC NTTCTGGGTC TTGTCCGGGA TATGGCCTTC CTGAAGGTCT TACCTCCCCC 120
 AGCCGCCCTG CACTTGACCA CCAAAGCAAT CTCTAAGCTT ATAAAGGAGA AACATGTATA 180
 TATGGGGTTT TTTGGAGTAA AGGAAAATTC TAAGATATTA AA 222

SEQ ID NO:2691

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03133

SEQUENCE DESCRIPTION:

GATCCACCTG CCTTGGCCTT CCAAGGTGTT GGAATTACAG GCGTGAGCAA CCGCGCCTGG 60
 TCTATATGTN ATTTCAAATN AGGTGGCCTT ATAAATATAA GCAGATGGGT TTCTGGGCAA 120
 AATCAAATNA TTTCTGTCTC TATTNNTTG AGTACCAATT GTAAANCTG AAATTAGGTT 180
 GAGGAAAGTN CTTTAGAAAT AATAAAGATG TACAANTACA AA 222

SEQ ID NO:2692

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03134

SEQUENCE DESCRIPTION:

GATCTGCCCA CCTCAGCCTC TTGAGTAGCT GGGACTACAG GTGCATACCA CCACACCTGG 60
 CTAATTTTTT AATTTNATT TTTATTAAAG ACAAGGTCTC ACTATGCTGC CCAGGTTGGC 120
 CTCCCAAAGT GTTGGGATTA CAAGTGTGAG TCACCGTGCC TGGTCCCATG TACTTGANGT 180
 CATCACTANC AAAATGTATA GATATTGTAT AATGGCAACN 220

SEQ ID NO:2693

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03135

SEQUENCE DESCRIPTION:

GATCTTTAAT AAAAATTGA TATGAAAAGC ACAATGTGCA GANGTTATGG AAAACCTATA 60
 GAGGATTACA ACAGGTAAAC GTTAAAGAGA ATACATTGCT GACTTATAGT GATGTGGCTA 120

AGANGTACAT GCTTTGTTGT AAAATTNCTT GAAAGCCCAT TGAAAGATGT ATCTGTTTAT 180
TTACAGTCTT TGAAGTAAAA GTTACCAATG TTTGCCAAA 219

SEQ ID NO:2694

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03136

SEQUENCE DESCRIPTION:

GATCTNGCCC CTGCGCTCTN GCCTGGGTGA CAGAGCAAGA NTCTATCTNA AAAATGTTTT 60
TAAAAAATAC TTCCTAGGGA AACACACATT TNGCCCTATT TGGAACTTG AAAAGTGAGC 120
CCTCCTCTGC CCATGGGCCG TGCTGCTCAG CCTGCCATAC TCGCTTGCTT TGCTGTTGG 180
NATTGCTC CAGAATAAAG GTCCTTTTG TTGTTGAAA 219

SEQ ID NO:2695

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03138

SEQUENCE DESCRIPTION:

GATCCTAATC CCTCCTCTC CCATTCACCC TGTGTAACAG NACCCCAAGG ACCTGCCTCC 60
CCGGAAGTGC CTTAACCTAG AGGGTCGGGG AGGAGGTTGT GTCAGTACT CAGGCTGCTC 120
CTTCTCTAGT TTCCCTCTC ATCTGACCTT AGTTTGCTGC CATNAGTCTA GTGGTTTCGT 180
GGTTTCGTCT ATTTATTAAG AAATATTGA GANCAAAAAA CAAA 224

SEQ ID NO:2696

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03139

SEQUENCE DESCRIPTION:

GATCAAAGTC TTAAGTGTGT TTGCAGCTCA AAAATAAAGA TGTATTAAGG AGGGGAAAAC 60
CTGGTCTAAG TGCAAGGCAC ACTTACAGCG AGTTTACTT TCGGTTGTAT TTTCTTTGTA 120
TATNATAAAC ATTTATTTAA CTTGTTGCCG TTTGAAGTAA AAAATTCCA AAATGTATGC 180
TCAACAATAA TCATTAAAAT GTTTTCAGCG TACAAA 216

SEQ ID NO:2697

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03140

SEQUENCE DESCRIPTION:

GATCAAATTG TGTTTAGTAT CACTATCTTC TCTCCTCGTT TCTCTCTTAC TCCTCATCCT 60
CCCAGAATCT ACCAGTTTAT GGTAGAAAGA TGGGAACCTT ATTTGAATGT GTTTTTTTT 120
TCCATGATGT CCAATTTTGT NGTGGGAAAG GATTGGATA AAANTTTNGT TAAATTTNG 180

GTAGNTTTTN ATCTNTACAA NTTAANTAA AATNAN

216

SEQ ID NO:2698

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03141

SEQUENCE DESCRIPTION:

GATCTCAAAA GTATTCCTCA GGGTAGTCTC CATTCTGTC ATTTTNCCTC CTATTCATGA 60
GACGGAAAAA TTATGACCAT GGTACAGAGT TGTATCAAGG AAATGAAGAA CTAGAACATT 120
GAATTGAAAG GTTTTGAAG GGTTCACAAT TTCTTTTCAT TTNCTATTAA TGTCTTCTTT 180
TAAATNCTCT TAAGAATAAA ACTTTTTTCT AATAAA 216

SEQ ID NO:2699

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03142

SEQUENCE DESCRIPTION:

GATCAGCAAA CAGGAATACG ATGAAGCCGG GCCTTCATT GTCCACCGCA AATNCTTCTA 60
AAACACTTTC CTGCTCCTCT CTGTCTCTAG CACACAACTG TGAATGTCCT GTGGAATTAT 120
GCCTTCAGTT CTTTTCCAAA TCATTCCTAG CCAAAGCTCT GACTCGTTAC CTATGTGTTT 180
TTTAATAAAT CTGAAATAGG CTA CTACTGGTAA A 211

SEQ ID NO:2700

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03145

SEQUENCE DESCRIPTION:

GATCACGAAC ANTAGCTTGC GCTCTACTCT GTAGTTATGT GGATTGCCGA GCAATNACCC 60
TTTTCAATNT CTTATTTCTG TGTTACTGAG GACCCTAATC ACTTAGGGAT GTAATTTTAT 120
AGTATAAACT TTCTGNACAG TTTTNCNTAT AGTCTAATAA GTAAAAAGTG TCCNNCAAAT 180
TATGATAATT GCCTATGGTA CATGGATAAN TTAANGCACT GCACACGGTG TAAANN 236

SEQ ID NO:2701

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03146

SEQUENCE DESCRIPTION:

GATCCATTTT TNACACACAC TGCCAGAGAT ACTCTAGGCA TGTAAGCAC AAACATACAT 60
ATAAAANCTG CGGGCTTCAA AAAATATAAG TAGGATGTCA TCTATACTGT CATACACTTT 120
GTTTTTATC ACTTACTTAA TGTTATATCT NGGATATTGT ATTACCCTGG GTATTAAAAAN 180
GAACTCCTTT CACATTTTAA AATAAA 206

SEQ ID NO:2702

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03147

SEQUENCE DESCRIPTION:

GATCTAAAAC TGGGGTTTGG GGGAGGGTTT CANCCTCTCC CCACTCCNCT TGCCCCACAC 60
CCTTTACTCC CCAGCCCAGA GAGACGCTGC TTTTACCAGG AAAGACTATT GAAAGATGTT 120
TTATATTATT TTNCTCTGAC CTTTCCATCC TTGAAAAAAT GGGGAAAAAA GAAGAAAAAA 180
GACAAAATCG ACCATAAAG ACCAAA 206

SEQ ID NO:2703

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03148

SEQUENCE DESCRIPTION:

GATCTTGTTA ATGCATTTTT GATGGGAAGA AAAGGTACAT GTTTACAAAG AGGTTTATG 60
AAAAGAATAA AAATTGACTT CTTGCTTGTA CATATAGGNG CAATACTATT ATATTATGTA 120
GTCCGTTAAC ACTACTTAAA AGTTTAGGGT TTTCTCTTGG TTGTAGAGTG GCCCAGAATT 180
GCATTCTGAA TGAATAAAGG TTAAA 205

SEQ ID NO:2704

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03149

SEQUENCE DESCRIPTION:

GATCCTGAGG CTTTGATGCT ATTTNTTAA TCCAGCTGGT CTGTGGAGAA GCCTGGGACA 60
GAAAGAAGCA GCCAGACTCC AGAATCCCCC ATTTAATAG CTATNNNATG CTATGTCCCC 120
GTCTTATTCC TGGCAACTTA CCTCTCAGCT CGTGCACTGT GACATTACAG CAAGAAGTAC 180
TAATATAAAT GACACAAANG AAA 203

SEQ ID NO:2705

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03150

SEQUENCE DESCRIPTION:

GATCTGAAAA AAATACGGTT GAAAGTGGTG CAGGTAATTA CAATGTGTAG GCAAACCAGA 60
AAACCATGGC TTAAACCAGC AGCTTTTGTN AGAAATNATT TCTCCAATGA NTGTAGAAAC 120
GTTTGCNGCT GAATTGTGAC CTTNCCATTT NACCTGCTTT TCCTGCAAAG TATATTNNC 180
AGACCCAGGC AGTGCTGCTC GCN 203

SEQ ID NO:2706

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03151

SEQUENCE DESCRIPTION:

GATCCAATGC TAAACTCCAA TGGTTCAGTG ACTGTGGTTG CTCTTCTTCA AGGCAGCTGA 60
TACCTGTGCA TACTGCAGGC ATCTAAATTA GAAGACCTGC GAGTAAACT GAAGAAAGAA 120
GGATATTCTA ATATTTNTNA TATNGTTGTT AATCATCAAG GNATCTNTTC TCGATTAAAA 180
TNCACACATC TTANGAAA 198

SEQ ID NO:2707

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03152

SEQUENCE DESCRIPTION:

GATCCATAAT TCCTATTCAA TGAACATCAT TGTGGTGGC TGAATACATT TTGGAAGAGA 60
GTTTTTCATC TTAGAGATTG GTGAACAAGT GTGAGGGTGT GAGAACTCA CAGAATACAA 120
ATTTGCCTGT ATGTTTTGTG GGTTTTTTTT TTCCCCTTCA NGATGTTTNC TATTNCTAAN 180
TTAANGTAAT TNCAAGGTAA A 201

SEQ ID NO:2708

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03153

SEQUENCE DESCRIPTION:

GATCTATTAG TTTAGTGT TTATNAAAGAAT CAAATGTATA GAATTACCAA GCATTCGTGG 60
GGAATNCTGT GTAGCAAATG TAAACTNAC CTGCTCGGAA GAAACGTAGG ANCGCTTCAA 120
ACCCACTGTA ATGTTTTGGTT TGANNATTATT TCCATTGCTT TNAGAGTGAN CTGCCTAAGN 180
GTAGGCCCTTA TAATAN 196

SEQ ID NO:2709

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03154

SEQUENCE DESCRIPTION:

GATCTACAAG NATTTTCTTT TAGTAGTTAT ACAAAGANT ATTACATTTA TTGGTCTGTA 60
CAGTGTAAATA AACAGCAAT AGGGACAACA ACAAAGAGAA TCTAAGAAAG ANGACTATGC 120
CTAANTATAG GGAAGTTTA GAGAATCATT TTTAGACAGG ACACATTTTG CAGTAGTGAA 180
TGTGGTAGGT TTN 193

SEQ ID NO:2710

LENGTH:193
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03155
SEQUENCE DESCRIPTION:
GATCAGTGTT GCAACATANT GNAAAAGATG GCTACTGTGC CTTGTGTTAC TTAATCATAC 60
AGTAAGNTGA CCTGGAAATG AATGAACTA TTAATCCTAA GANTTACATT GTATAGCCCC 120
ACAGATTAAAN TTTAATTAAT TANTTCAAAA CATGTTANCC GCNACTTTCA TGTACTATGG 180
AAAAGTACAN GTN 193

SEQ ID NO:2711
LENGTH:192
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03156
SEQUENCE DESCRIPTION:
GATCTCGAAC CCTGTCTAGA AGGAATGTAT TTGTTGCTAA ATTCGTTAGC ACTGTTTACA 60
GTTTTCCTCC ATGTTATTTA TGAATTTNAT ATTCCGTGAA TGTATATNGT CTTGTAATGT 120
TGCATAATGT TCACTTTTAA TAGTGTGTCC TTTATNCTAA ACAGTAANGT GGTTTTATTN 180
CTATCACACA AA 192

SEQ ID NO:2712
LENGTH:386
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03157
SEQUENCE DESCRIPTION:
GATCCAGAAT NGAGACTGGA CCTTCCAGAC CCTGGTAATG CTGGAAACAG TTCCTCGGAG 60
TGGAGAGGTT TACACCTGCC AAGTGGAGCA TCCAAGCATG ATGAGCCCTC TNACGGTGCA 120
ATGGAGTGCA CGGTCTGAAT CTGCACAGAG CAAGATGCTG AGTGGAGTCG GGGGCTTTGT 180
GCTGGGCGCTG CTCTTNCTTG GNACAGGGCT GTTCATCTAC TTCAGGANTC AGAAAGGNCA 240
CTCTGGNCTT CAGCCANCAG GACTCTTTGN GCTGAAGTGC AGGTGNCCAC GATTCAAGGG 300
ANGAACCTTC TTGNCCCANG NTTTTCAAGA TGGAAAAGCT TTCCCCAACT TTGGNTTCTT 360
NTTNTTCCC ACCAAAGAAAN CTTNAN 386

SEQ ID NO:2713
LENGTH:189
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03159
SEQUENCE DESCRIPTION:
GATCTTCCGG AAAAATAAG CCCCTCCTTC ACCCCCGCAC ACCTGCATCC CTGCCGGAGT 60
CNTGNTGAGG CACGAACCCT GCCTCCCTAG GCCGGACCTT GTGGACGACA GCCCCACCCA 120
GTCTGTGCTC TCAGCCGCTG GCCGAAGGCC CAGCCTGCTC AGAATAAAGC ATGTCCTGCT 180
GCCGGCAAA 189

SEQ ID NO:2714

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03160

SEQUENCE DESCRIPTION:

GATCCCATAG TTTTACATT TNCCTGTTTA TTTTGATTTT TTNCACTGCT TTATTTCTTA 60
AAGTNCTAGC ACATCTGTNA CTCCTCCACT TCCACATTTT TNCAGTCTT ACACTTACGT 120
GCAATCTTAT TCCTNGTCTG CACACACATG TGGAAAGCTA GAAATAAATG TTAAACTNA 180
CTTTTAAA 189

SEQ ID NO:2715

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03162

SEQUENCE DESCRIPTION:

GATCAAATCT CTCCTGGCTG TAGTAACCCA GTGGAATGAA TTTGGNCATG CCCCAATGCT 60
TCTATATGCT AAGTGAAATC TGTGTCTGTA ATTTGTTGGG GGTGGATAG GGTGGGGTCT 120
CCATCTACTT TTTGTCACCA TCATCTGAAA TGGGGAAATA TGTAATAAA TATATCAGCA 180
AAGCAAA 187

SEQ ID NO:2716

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03163

SEQUENCE DESCRIPTION:

GATCCAAGGG CACAAGGAGA TGAGCAAGGT GTGGAACGAC CTGAGGCCCA AGCTCAGCTG 60
CCTCTTTGCG GGACCACACA GCACCCTGAC CCCACCGTGC TCCNNGNCGG AGGACGGCCT 120
GTGTCCTCAN TAGCGCCTGA GGCTGNNGTG GTGCTCCCTG CGGNCGCACT AAAACCTCTT 180
TNCNAAA 187

SEQ ID NO:2717

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03164

SEQUENCE DESCRIPTION:

GATCCTCCTG TTTACCCTGT ACCTCCAATG TCTGGCACTT GTAGGTGCTC AAATATTCGT 60
TGAATGAATG AAAAATCCAT ATTGTAATTG ATGTCCTCTG GCCACATAGT TTAAAAATTA 120
GGTGATTGAT TATATGACCG AATAGAACTA TCAAATGTTT TCCTAATAAA GTCAATATTT 180
CAAACAAA 188

2153480

SEQ ID NO:2718

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03166

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGNTTACAG GCATGAGCCN TCGCGCCCGG 60
CCGGATTTTT TTTTTTTTG ATTACAGCTTA TACCAGGGCT GAAAACCTCA NTTTATGTTT 120
ATGACAGTNG GGATTTTTTT AAATGCCTAC ATTCTTTCTA ATAAACTGTT GGAAGACNTT 180
AAA 183

SEQ ID NO:2719

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03167

SEQUENCE DESCRIPTION:

GATCCAAGTG GCCCAGCAGA AACGGAATTN TNGTNAAAAT GACTGATTCT GGTGCATGTN 60
AAAGGCTCTG GGGGAATNAAT ACCTGTTTGG TCCAACTTA CTGTATCATA ATGCTGTATA 120
TGTTNGAAAAC GTAATACCTG TNAATGTCCT AATGAATCAN GTTTTGCAGA AAACACCGTA 180
AA 182

SEQ ID NO:2720

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03168

SEQUENCE DESCRIPTION:

GATCCTCCAT TGGAGTGGCC CAATCTTTCC TCTAGGGCAA TCCTGAAAGC CCAAGGCCCT 60
TCNCAGTCTG GCCTTGGCTT CAGCTGGAGA AGGGTAACAT CAGTCATTGT CAAGGCACCN 120
CCANCCNGA CAGACCGTGT CTCTGATAAA GGTTTTGAAG TGATAAAGTT TAAAACTAA 180
A 181

SEQ ID NO:2721

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03169

SEQUENCE DESCRIPTION:

GATCCTCACT CCACTGTCAT GTTTGAAAGA GGTATTGGTG TTCTGGAGTG GGGGTCAACC 60
CCTCCCCAGT CTCTGTGCTA AGTTCCTTG GGAGGATGGC AGTAGGAGCC AGGGCTGGCC 120
ATGGGTCCCC TACGCTTNCC NNTAGGATAT ACCCTGGAGA ATGGCAAAT GATTAAAA 178

SEQ ID NO:2722

LENGTH:287

00972

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03170

SEQUENCE DESCRIPTION:

GATCCTAAGG CAAAGAGGTG TTTTCCTTC TGGTTGATTC ATCCCAAAGC TTTCCACCC 60
AGGTTTTCTC TGAAAGCTTA GCCTTAAGAG AACACGCAGA GAGTTTCCT AGATATACTC 120
CTGCCTCCAG GTGCTGGGAC ACACCTTTC AAAATGCTGT GGAAGCAGG AGCTGGGGAG 180
CTGTNTTAAG TCAAAGTAGA AACCTCCAG TNTNTGGTGT TGTGTAGAGA NTAGGNCATA 240
GGGTAAAGNG GCCAAGCTGC CTGTAGTTAG TAGAGAAGAN TGGGGAN 287

SEQ ID NO:2723

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03171

SEQUENCE DESCRIPTION:

GATCACCATG ACTGCAACAT GGTATATATT CATGCTGCC TAGAACTTT TGAATTATT 60
TGTGCAAAAT TTGTGACTGT CCTTATTAAC TTTCTTAT GTAAAGTAATT TGAAAAAGTT 120
TCTNAAAATT TTTGCTTTTG CTTATTTAAT TTTNAATAAA AGCTAAATC CTAATAAA 178

SEQ ID NO:2724

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03172

SEQUENCE DESCRIPTION:

GATCCTGGAG CCCCCTGTC GGGGGGCGAG GNGGGGCGG TGNCCGACGA GTTGANCTTC 60
TNAACATGAG TGTCAACTTC AGGACTTGCT TCCAAGCCCT TCCCTCTGTT GGAAATTGGG 120
TGTGCCATNN CTCCAAGGN AGGCCATGT GACTAATAAA AACTGTGAA CCTGAAA 178

SEQ ID NO:2725

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03173

SEQUENCE DESCRIPTION:

GATCCTTTTG AATTTGCAC AGCCCTAGAT ACAATCCCTT TTGATAAAAG GGTCTTGCT 60
TCTNATTACA GGAGCACTGT GGAACGTCTG TAAATATGTT TTTATAATC CATGTATAGT 120
TGGTGACAC TCAAACCTG TCCCGGCAG CCAGTGCTCT CTGTATAGG CCATAATGA 180
ATTCTGAAGA AATCTTGGG AGGGAAGGG AGTTNGAACA AATGTCTGTT CCCTGGGAGG 240
CCAGTCCAGT GCTCAGACCT TTAGACTCAT TGTAAGTTGC CACTGTCAAC ATGGGACCAA 300
AGGTGTGTGA CTAGTCAATG AAAGTGCGGN CANATTN 337

SEQ ID NO:2726

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03175

SEQUENCE DESCRIPTION:

GATCCAAAAC ACTCAATCCT CGTAAAAGGG TACAGGTCCT ATTGTATGTT AACACACGTG 60
ATGATGTGAG CCATGTGAGA TGANCAATCA CCAGTTGTTA TGTTGGAATC TCCTTTGTGT 120
TGGGCCGCTT TAATGTCAGG GTTTCATAA ATAAATGAAT TTTCATATAC TGAAGTAAA 180

SEQ ID NO:2727

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03176

SEQUENCE DESCRIPTION:

GATCTGAGCC AGGATGGGAG TGAATCCCAG GCGGAGGCCA GAGCTGGCAG CCAGCTCTGC 60
CTTTCCTCTG CCGGGAGTGC TGGGGGCCCA GCCTGGCCCC CNGAAGAGAC AGCCAAGTGT 120
CGTCCACATA CTCCTCCCAG AGTGAGCTCT AACCAGGCTC ATTTGCTCTN TCCAN 175

SEQ ID NO:2728

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03177

SEQUENCE DESCRIPTION:

GATCCTGTTN CCNACCTCCT TCTCCTCCCC TGTAATCCCC AGTGCCTTCC ATTGTCCTGG 60
TGGAGCTGGG GTTCTCTCTC TCCCAGTCC CACAACACTG CCAAAAATCT GTGTATGTNC 120
CATTGGGTGG GGCAGCCCCA AGCCTCCTGG GGAGGCAGGG CAAAAACAGG TGCCN 175

SEQ ID NO:2729

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03178

SEQUENCE DESCRIPTION:

GATCAGAGGA AAGATGAGAA AGAGAACAAG CATACCTATC TNACTCCTTC CAGTGGTCTC 60
TGTTCCCTCC GTCTCCTGGA CCACGGCTAG AGTTCCCAGT TTGGCCTTTT GGGGCATTCA 120
TCCCATCTAC TTTATTTTCA TCTGCTTGGG CAGTAATGTA AACAAATTAA AGGN 174

SEQ ID NO:2730

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03179

SEQUENCE DESCRIPTION:

GATCGTCTGG GAGCCCACTG TCAAGTCTGC TGGAATGCAG GAAGTAGAAC AGAATCGCCA 60

CAGGACTGTT CTGGGGCCAG GTTCCCTTAA CTCTGTAGCC TGGCAGTCTG ACCCAAAGTT 120
 GCCCTCACCC AAAGGTTCTG GCTCTTCCCT CCCTCACTTT TACTTCCCT TCCCCATAA 180
 GTTGGAGGAT AAAATGGGTA TCAATGNTAA TTTTCCAGG GNGNCCATGN NNACCAGCGG 240
 TTTCTNCTN TCTCTGTAAT CTGCTATGNA N 271

SEQ ID NO:2731

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03180

SEQUENCE DESCRIPTION:

GATCTNCGGN CTGTCGTTAG CAGGCTTAAT NAAGAACACT TCTCAACAGT TTCCTTTTTN 60
 TTTCTTTTA TAATCTACTA AAATAAGCA TCTATTAGTG TCTGATTAG GAATGTAAAA 120
 TAATTCTNTA TTAATGTAAA TAAGATTATC TATTGCAAAA NGATATTTC ANCTAAA 178

SEQ ID NO:2732

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03181

SEQUENCE DESCRIPTION:

GATCTTACCA AAGAGGTCAA CACATGGGAC CTTTGTGTCA CATGAACCAT TTTTTCCT 60
 CTTCTATTAA GTGTATTNT GTTTAAGNTA CAGTTCTCTA AGAGAATTAC AATGTTTGTG 120
 CCATTTCTAA GGGCTTCTNT TCAACTCTAA TAACAGCATT ATTCACGTAA AA 172

SEQ ID NO:2733

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03182

SEQUENCE DESCRIPTION:

GATCAGGAAA CGGCAACAAG CCTCCCAGTA CTGACCTGAA AACTTGTGAC AAGAAGAACA 60
 CCAACAAGTG CTCCCTGGGC TGAGGACCCT TTNTGCCTC CCCACCCCGG AAGCTGNACC 120
 TGAGGGAGAC AACGGCAGAG GGAGTNAGCA GGGGAGAAAT AGCAGAGGGN 170

SEQ ID NO:2734

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03183

SEQUENCE DESCRIPTION:

GATCTGGATT TATGTATTG TNAGATACAT ACGAATTGTT AAAATGGAAT GCAAGTTTTT 60
 CAAAAGCCCA GGTCTAAATG TAATGGTTGG TTTATNGTNC TATAACCCCA GCCCATCATT 120
 TCCTGTGTAA ATCATAAACA ATAAACAGAA TATACTCGGT GGCCATTCT AATAAA 176

SEQ ID NO:2735

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03185

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTNGGCCTC CCAAAGTGCT GGGATTGCAG GCGTGAGCAN CCGCACCCGG 60
CCTCCTGAAT TAACATTTTC TAAAGATGCC TCCGGCGTGC TATCCTGAAA GCTGCCAGAG 120
GTGTCTTGGC TGCATTGGTG GTAATAAAAT TCATACTCAT AAA 163

SEQ ID NO:2736

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03186

SEQUENCE DESCRIPTION:

GATCTCAACT ATGTNCCACT AAAGGCACAG GAATGGAAAA CTGAGAAAAG ATTTATTGGC 60
CTCACCAATT CCTTTGGTTT TGGTGGTACT AATGCAACAC TTTGTATTGC TGGNCTGTAG 120
AACATATANT TNGTAATNAA ATACTGATTT TNAATGTTA AA 162

SEQ ID NO:2737

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03187

SEQUENCE DESCRIPTION:

GATCCTGCCA CCCTGTAGCG CCAGTNTAAT CCCCCAGGAG AACATCTTTG AACTCTTGCA 60
GACTGCTAGT GTTCTGTCTA AAAACCAGAC AAGGAAATAC CCTTCTTTTA TGAGCAGAAG 120
GAAACAAAAA AAAAAANGAG GCCCNTTTNC CTGGANGAAA 160

SEQ ID NO:2738

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03188

SEQUENCE DESCRIPTION:

GATCTGCCTT ATTGCATATN CCATGCATCA GATAATGGAT GCATCAGATA ATGGNGTTAG 60
ACAAAGCTTC ATTGTGAACA ACCTAATGCA TTTNNGAGAA ACANTCTCAT CACATTTTTC 120
CTAGCCTTNC CTACATTTAA NCTTGCTGTT GCCCAAATN 159

SEQ ID NO:2739

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03189

SEQUENCE DESCRIPTION:

GATCAGANGT TTCACTTGTT TCTCAGTTAT TGGATATGTA TCTTTGTGTA CATATCTTTG 60
 CAAAANTGGA TAAGTACAAA NCTTGATGTA AATNGTACCA ATGANTATGT AAACATACAG 120
 TGACANCATT AAACCTAGAA AAGTTTTAAA ACTTAAA 157

SEQ ID NO:2740

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03190

SEQUENCE DESCRIPTION:

GATCCACTGG AATTAGCCAA TACACTATAT AACAATACTA TTAAAGTATT TTTTCCTGGA 60
 ATATAATTGG TATATGTCTT CCACTTTCCA TCATGTATGT AAAATTTTAT AGTAAAACTT 120
 CCTGATAGTT TCAATAAAGA AATNATCTGC AAA 153

SEQ ID NO:2741

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03192

SEQUENCE DESCRIPTION:

GATCTTNAAT GCTTTGGAAA TCGGTGTAAC AGTACTGCAA TAATCACAGC TCTGGGAAAA 60
 ACAACGAAAC TTTCCCTTGT GGAGAGGAGG GATTTCCTG CTCTATATAA GCAACATATT 120
 TTNAGACATT AAAATATGGT ATNCNNNNCC N 151

SEQ ID NO:2742

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03193

SEQUENCE DESCRIPTION:

GATCTTNCTN ATCCAAGCAA TAACGGGACG AGGGAGCCAG GGCCAAGGAC ACTCAGGGAC 60
 ACTGTTGGGG CAGCGGCCCC ACATGGTAAT GTTTTNTTTA GAGAGAAGAA AAAACAACCTG 120
 GCTGTAAACG TAAATNATAT TTNTTGAAA 150

SEQ ID NO:2743

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03194

SEQUENCE DESCRIPTION:

GATCGTNTTT TTNCTTGTTA AATAATTAAA ANTCATCTTA AAATTCATAC TTTGACTTTA 60
 ATTTAGACAC AAGGAGATGT AATCNCCTGT TAACATCAGA GAAAGCTATA TGGATTATNG 120
 TCAGANGTAA ATGTTTCTAA CATTGACAAA 150

SEQ ID NO:2744

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03195

SEQUENCE DESCRIPTION:

GATCGAGTTG GCCGAGGATG GATGATTNTG NGCAGCAGAA GCCGTTGCAG CCCCACGTTG 60
TGCTCTAGGC AGGGACCTTT GGCCCCTTTG GGGAGGGAGA GACAGACGGG CGGTTTGACT 120
TGGACACAAA GAAAGCCTTG GTTCTAAA 149

SEQ ID NO:2745

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03196

SEQUENCE DESCRIPTION:

GATCCCAGGT CTGGGGATGG GGGACACCTT NGGCCACAGG ATACTGGTTG CTTCAGGGGT 60
ACCCATGCCC NCTGCCCTNG CCTGGAATCA GTGTTACTGC ATCTGATTAA ATGTCTCCAG 120
AAATAAGAA TAATTCTGCC AGAAA 145

SEQ ID NO:2746

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03197

SEQUENCE DESCRIPTION:

GATCACTCNT AGAGTNGCCA TTCTGCANCT TCCTAAAAAT ATTTAAAAA TACATTTATT 60
TTACTAAATA CTGACTACAT TTNTNTGTTA ATATTGAGCT AAATGTAAAA AAATGGCCAG 120
ATTAAAAAGAT ATCAATTTGT AAA 143

SEQ ID NO:2747

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03198

SEQUENCE DESCRIPTION:

GATCCATAGT GTGCATGGGC AGACACATTT TGCCTCTATG TCTCTAAAA TTTTAATTAA 60
AAATACTCTT TCCAGTAATC CTAATTTGCA CGAAGATATA ATGTCCACAT TACGTGCCTT 120
GCCTTGAAAT CTAACAAAACA AA 142

SEQ ID NO:2748

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03200

2153480

SEQUENCE DESCRIPTION:

GATCTCACAG GACTGAGAAC TCGTTCACCT CCAAGCATT CATGAAAAAG CTGCTTCTTA 60
TTAATCATAC AAACCTCTCAC CATGATGTGA AGAGTTTCAC AAATCTTTCA AAATAAAAAAG 120
TAATGACTTA GAAACTGCCA AA 142

SEQ ID NO:2749

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03201

SEQUENCE DESCRIPTION:

GATCTTTTCA TTTCTTACTA GCTTTTAAGA AATNAAATAC TTGCCTGAGA TAGAAATACT 60
TTATTTTGT AACTTTAAGG TCTAAATNAC TAAACTTCAA AGTAAGATTT TNTCAGAATA 120
AATTGAGACC ATTAATCTAA A 141

SEQ ID NO:2750

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03202

SEQUENCE DESCRIPTION:

GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTANA ACGCCACCTT 60
GAGCTGCTGG AACCTATTCC CTATGAATTC ATGGCATAAT AGGTGTTAAA AAAAAAANA 120
AAGGACCTCT GGGNTACAAA 140

SEQ ID NO:2751

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03204

SEQUENCE DESCRIPTION:

GATCCTATTT TCNTACAACC TTTCAGTGAC ATCGTTCAGG NTTCTTTCTT GGCCATTTAA 60
AAAAACAAAT TTTTTTTTNC TCACTTGTA GTCACCGCCA GTNCCTAAGT NAGGCTAACG 120
GNGACTTTGA CAGGN 135

SEQ ID NO:2752

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03205

SEQUENCE DESCRIPTION:

GATCAGTAAT AGATNTAGAT ATACTATTTT NATATTGTAA GCAGTTACNT ACTCAGGATT 60
AGNATTCGAA TTCATTTGAT TTAATATGTA ATAGGTAATA TTAAAANTAA AGATTTTATG 120
CTTTGAAACT CAAA 134

00979

SEQ ID NO:2753

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03206

SEQUENCE DESCRIPTION:

GATCAGACGT CGCTGAGGGG CTGTNCACCA CCATCCTCGT TCTCCAGGGT CAAGGAAGTG 60
TTTAAACATG TCGTGTTC GACTTGACCT TGTGGTATTT TNCTNGGCCT AGTTGTGTGC 120
CATGGATATT AAA 133

SEQ ID NO:2754

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03207

SEQUENCE DESCRIPTION:

GATCACTGTA GTTTAGTTCT GTTGACCTGT GCACCTACCC CTTGGAAATG TCTGCTGGTA 60
TTTCTAATTC CACAGGTCAT NAGATGCCTG CTTGATAATA TATAACAAT AAAACAAC 120
TTCACCTCTT CCTATTGTAA A 141

SEQ ID NO:2755

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03208

SEQUENCE DESCRIPTION:

GATCGTTATA TTTNACATAA TATAACAATA ATNACTAATG CATCTATATN CTTGGTTTCC 60
TTAAACTACA ATNAACCACA GAATGGGTGA AAATGCAGGC ATGCACGCTT GGCCTAATCA 120
TGGATGNNGC TN 132

SEQ ID NO:2756

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03212

SEQUENCE DESCRIPTION:

GATCCGNC CG CCTCAGCCTC CCTATATGTT TAAAAATATA ANTTTATTCT TAAAAANTA 60
AATTNAANCT AGATTGAGGT AGTAATTACA ACAGTCCAGC ACATTATGGA TAATTAATAT 120
TNATATTAT N 131

SEQ ID NO:2757

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03213

2153480

SEQUENCE DESCRIPTION:

GATCTGATAT TTTAAGANTT TGGAGACCAT TTCCTGTGCC AGANTCACTG CTCTATTCCA 60
TACCGTGCCA TGGAGGCTGT TTTAGAAGTG GTTGGATAAC ATGTAAATA AAATATTAAG 120
TGTAATAAAA AATAAA 136

SEQ ID NO:2758

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03214

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAAGTCCT GGGATTACAG GTGGGAACCA CAGCACCTNA 60
CCCAGAAATAT AAAGACACTT TTNTAATGTG CAATGAAAAA TATGTAAATA AANTATTTTT 120
ATCTNTAAA 129

SEQ ID NO:2759

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03215

SEQUENCE DESCRIPTION:

GATCCACCGT ACCAGGNAGC AGAAATATTT CTACAAAGGG GGCCTAGTTT GGAATGAGAA 60
CANNTCTGAC GGCCGGTATG TGAAGGAGAA CTGCAACCT CTGAAGAGTT ACATGCTCCA 120
AGACTCCCN 129

SEQ ID NO:2760

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03216

SEQUENCE DESCRIPTION:

GATCATGTTG GGATTAACCT GCCTTTTTCC CCAAAAANNA AACTCTCAGG CAAGCATTTT 60
TTTAAAGCTA TTAAGGGNGT ATATACTTGA GTACTTATTG AAATGGACAG TAATAAGCAA 120
ATGTTCTTAT AATGCTACCT GATTTCTATG AAATGTGTTT GACAAGCCAA AATTCNNGG 180
TG TAGANATC TGGAAAGTTC ATTCCTGGG ATTCACCTTCT CCAGGGATTT TTTAAAGTTA 240
ATTGGGAAA TTANCAGCAG TTCACITTTAT TGTGAGTCTT TGCNACATTT GACTGAATTT 300
AGCTGTCTATT TGTNCATTTA AAGCAGCTGT TTTGGGGNCT GTGAGAGTCC ATGTATTATA 360
TCCAAGCCCA CCAGGGGCTTN CCCTAAGGAN TTGCCATNGT AATACCCN 408

SEQ ID NO:2761

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03217

SEQUENCE DESCRIPTION:

00981

GATCTAGGAA AGAAGGCAAC TGAAAAACCT GAAAGAAAA AAATNAAAGA TAAAAAGTAT 60
ACGATATTCT ATTTTGATTT AGCAATTACT TGTTTNCNAG TGTNCTGTNA ATTTTGGTN 120
ACTTTAAN 128

SEQ ID NO:2762

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03218

SEQUENCE DESCRIPTION:

GATCGGCAGG CTGAGGACCA GGTCCTGAGG AAGCTGGTGG ATTTGGTCAA CCAGAGAGAT 60
GCCCTCATCC GCTTCCAGGA GGAGCGCAGG CTCAGCGAGC TGGCCTTGGG GACAGGGGCC 120
CAGGGCTAGA CGAGGGTGGG CCGTCTGCTT TCGTTCCAC AAAGAAAGCA CCTNACCCCA 180
GCACAGTGCC ACCCNTGTTT ATCTGGGCTG NCTGGCAGAG AGCCTTGCTG TTTACAATTA 240
AAATGTTTCT GCCACAAA 258

SEQ ID NO:2763

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03219

SEQUENCE DESCRIPTION:

GATCCTTGTT GGTCTAGCTA AATACTGTTA GGGGAGTGTG CCCCATCTCA TCATTTGAA 60
GATAGCAGAG TCATAGTTGG GCACCCAGTG ATTGGGTTC AAAATAAAGC TGGTCTGCCT 120
CTTCTAAA 128

SEQ ID NO:2764

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03220

SEQUENCE DESCRIPTION:

GATCTNCCGC TCCCTCCCTG AAGGGCATGG GGCCAGGGNA GTCTGGACAG CCGCCCCCAG 60
CCTGCTGACC CCCAGCTTTC TACAGACACC ANATTGTAA ATAAAGTTGG GGAATGGACA 120
GCCAAA 126

SEQ ID NO:2765

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03221

SEQUENCE DESCRIPTION:

GATCTTTTTA GGCCTTCATT TTATGTTTT CCTTAACTGT TATATTATNA TTGTAACATA 60
GATTATACTA CTACTAATTN NTGGATGTNT CAAAAGGTCA AGAAGTAAAA NATGTTAGAA 120
AGCAAAA 126

SEQ ID NO:2766

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03222

SEQUENCE DESCRIPTION:

GATCTCTGCA CAGTTTCTTG TTTAGTCTTA TGCCTTTTAG TTGAAAAACA AATTGTATTT 60
TTTTCCTNCT AAGTTTCATG GCCCTAGAGA AGAAGCCAAT NTNNNTAAAG ATGTTATCCC 120
NGAAA 125

SEQ ID NO:2767

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03223

SEQUENCE DESCRIPTION:

GATCCTGGTT TCAATGACGG TTGGAAATAG AAATTNCCAG AGAAGAGAGT ATTGGGTAGA 60
TATTTTTCCT GAATACAAAG TGATGTGTTT AAATACTGCA ATTAAAGTGA TACTGAAACA 120
CAAA 124

SEQ ID NO:2768

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03224

SEQUENCE DESCRIPTION:

GATCACTTAG CAACATGCTT GGNAATTTGG NATCTNTAAA GGTAGGAGAG TGGTGAACAG 60
ATAATCTATG CATATATNAC TAGTGCCAAG ACATAAAGCG GGGGAAAATA TATTTTANCC 120
CAAACATTAA A 131

SEQ ID NO:2769

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03225

SEQUENCE DESCRIPTION:

GATCAATTAC CTAAGTGTTC CTTGGTCTAT TTATGTATAA GAATGCTTTT TAAAGCACAT 60
GTCTCATTTT AAATNACGCA CAAACTGAAG ATGTAATAA AATTTAAGAG TAATACAATG 120
AAA 123

SEQ ID NO:2770

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03227

SEQUENCE DESCRIPTION:

GATCCATTG TCTGGCAGGA GGTTTTGTAT GATAAAGCAA CGCTTGC GCC AAGGCACAAT 60
 AGTTGAAGNA TGGAAGACA GCGCATATCC TGAGGAACTC AGTAGAGTCA CAGCATCTGG 120
 CTTCCCTGTA ATCCTTTCTN CTCCTNGGTA CTTAGATTNG ATTAGCTATG GACAAGATTG 180
 GAGGAAATAC TATAAAGTGG AACCTCTTGA TTTTGGCGGT ACTCAGAAAC AGAAACAAC 240
 TTTCATTGGT GGAGAAGCTT GTCTATGGGG AGANNNTGTG GATGCAACTA ACCTCACTCC 300
 AAGATTTATG GCCTCGGGCA AGTGCTGTTG GTGAGAGACT CTGGAGGTTT CAAAGATGTC 360
 AGAGATATGN GATGACGCCT ATNACAGN 388

SEQ ID NO:2771

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03229

SEQUENCE DESCRIPTION:

GATCGATGGA CCGTAAATAA GCTGCCATTA ACACATCTGG TTACTGCTGT AACATGACTA 60
 ATAAAACCGA ACGCCTGTTC CCCTTACCCG TGTGGGGGAC ACGCAGATGA GTGAATTGGA 120
 ATGTCCAGCA GAGTTACCCT CCCAATTATA TGTTCAATTT GTATATTTTT TGGTCGGGGG 180
 AAAAATTGAC CTGCAGTAAA AAAACCTTTG ACCATTAAA 219

SEQ ID NO:2772

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03230

SEQUENCE DESCRIPTION:

GATCAGCACA GGAAGAGCCT TCCTAAGCAT GTGGTCCCAG GGAAGGGTGA AAAGTAGGAG 60
 TTATGAACGT AATCCACCTA CTACAATGTT GAATTAAAGT TATAATCTCA TAACTTCAAA 120

SEQ ID NO:2773

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03231

SEQUENCE DESCRIPTION:

GATCCGCCCC CCTCGGCCTC CCAAAGTGCT TGGATTACAG GCATGAGCCA CCGCACCCAG 60
 CAAGAGTTAT TTNNTAACT TGAAATTTT TACTAGCCCT GGTGAACTTC TGTGCTTAAA 120

SEQ ID NO:2774

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03233

SEQUENCE DESCRIPTION:

GATCCAAGGT GATACAGCTG GTAAGTATG GAGATGTTGG TAGTGAAATN CATGTACTTT 60
TAGTNCCTTC TATGGAATCT AGAGGNAGAA TACATGTACA AGAATATCGA CTACCGTCN 119

SEQ ID NO:2775

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03234

SEQUENCE DESCRIPTION:

GATCCCAGCT GTGTGTCACC AGCAGCTTTC CCAGCTTCTC TGTGAGGGTC ACTGCTGCCC 60
ACTGCAGGGT CCCTGAGGTG AAGTAAACGC CGGCGCTGGG CTTGGCCAGN CGGCAAA 117

SEQ ID NO:2776

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03235

SEQUENCE DESCRIPTION:

GATCATTCCC ATTTCATAGG TTTTATTGT GGAATAGTCA ACTTAATATA GATTCACTTT 60
CAATTTGCAT GTATAANGTA AACTCAATA AAATTTTTC CATTNATTTT NCAAA 115

SEQ ID NO:2777

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03236

SEQUENCE DESCRIPTION:

GATCCTGGGG TTGGTCTGCT TTGTGTATGG TACTTGAAAC CACGCTGTAA TTATTGTCCT 60
GTTGCCAAAC AAAAGCCAGT CATGTAACTC TAGAAGCAGT GACTGGTGGG GCTTTCTGAC 120
AGTTCCATGC TGATGTATCA GGCCATCTGT GTCATGCTTA TGTATTATGG CAAGAAGAGG 180
AAAAGTGGAT TAATAAATAC GTTTNNNNN NGTTAAA 217

SEQ ID NO:2778

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03237

SEQUENCE DESCRIPTION:

GATCCTNAGC AACGAACACC TGCACCTAGA AAAAGTGGAC AGCTTCTNCC AACCACACCC 60
TACCCATGGN ACTGTATGCA ATTAACCTCT GGAAACGCCC CGTAAATNCN AGTN 114

SEQ ID NO:2779

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03239

SEQUENCE DESCRIPTION:

GATCCAAAAT TACCTTAAAT GGAGTTAAGT AGGCTTTGCA CTAAATGGAT ATAAAAGAGG 60
CTGTCTGGNC TNCTATGAAA TNATGATTAA AATCCTTTGT GTTGTCTTTT AAA 113

SEQ ID NO:2780

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03240

SEQUENCE DESCRIPTION:

GATCCTTAAA GAAGGTGTGG GGTCTTTCCC AACCTGAGGA TTTCTGAAAG GTTCACAGGT 60
TCAATATTTA ATGCTTCAGA AGCATGTGAG GTTCCCAACA CTGTCAGCAA AAACCTTAGG 120
AGAAAACCTTA AAANTATATG ATTACATGCG CAATACACAG CTACAGACAC ACATTCTGTT 180
GACAAGGGAA AACCTTCAAA GCATGTTTNT TTCCCTCACC ACAGCAGAGC ATGCAGTACT 240
AANGCGATAT ATTTNTGATT CCCCATGTAA TTCTTCGGNG GNGGNCAGT GCAGTNCCTCT 300
TTCGGAAGCT TAAGATGGCC NTGNGGCCTG NCCNNNNGGN CATATGCCCC TGAAGGGCN 359

SEQ ID NO:2781

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03241

SEQUENCE DESCRIPTION:

GATCTAGGGC AGGCTGTCTT CCAGTCCATG TGTTCTCGGT CGCCGTAGAC AGCGCTCTGG 60
CTACCACCGT GAGGCTACTT GAACTGTCAG GGGCATCTGC CTAAACCAGA ATCTTTTGTC 120
AGAAACCTTA ACCCAACAAA ACAAATCTTG AGTAGTCAT GCCCGGCTCT TAGGAATTTT 180
GTCTGTTTAA A 191

SEQ ID NO:2782

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03242

SEQUENCE DESCRIPTION:

GATCACTCAA CAGCACTGTN ATGTATTATT TNNAATGAGG TGCCTTTTTT AACTGACCAA 60
ATGCTGCCTT GTTTGGCCCC TAANTCAATA AAATATGTTA AAATTGTAA A 111

SEQ ID NO:2783

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03243

SEQUENCE DESCRIPTION:

GATCTAAGAA ATAGAATTAG GGAGAGTTTA CACTTACTTA CCTATATAAA AGCAGATTTT 60

CNTGGAAGAA ACCCTTTTTT TTTTTTTTTT TAAANAGNA NCANCCAGN

109

SEQ ID NO:2784

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03244

SEQUENCE DESCRIPTION:

GATCCAGAAG CTGGTGGACG TCACCACGGC ACAGGTGTAA CNTCCATGTN CCGTGTGAGC 60
 AGAGTCCCTA CCAACGGGCA GGTCTGCATC CGGGGAGAAT GCAGCTGCTT CTGGCGACAA 120
 TCCTGCTAGT AAACACTGGT CTTCGGTGAG CAACGAACAC TCGCCTGGGN TGGGAAACTG 180
 CATGCCCCACT TTNTGGGAGG GGTTAGTGCA GGTGCCGTGG ACAAAGGACA ACATTCTNT 240
 GGGGCTTTT AACTTTTATT CCTAAGACTC TAAAGGCGTT GATTCAACC CTCCTTCACT 300
 CTGGCTTCTT CAGGNAACCC ACGTGGTCTC CTGTNAGNTN 340

SEQ ID NO:2785

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03245

SEQUENCE DESCRIPTION:

GATCTTTAAG ACAACAAGTT AGGTTCTTAC TGGAGTTACC TGCCAGANTG GCCTCTTAAT 60
 TAACTCAGGT AATGAAGAGC TAACTGTGTT ATAATCATCT NCCNNNTN 108

SEQ ID NO:2786

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03247

SEQUENCE DESCRIPTION:

GATCTGTAA AAATGGCAAT TGTAAGATNA TGTTGTATGT AATGTACATA TGGAGAAAGA 60
 ATGTATTTN TCCATTTCTT TAATAAAATG TTATATATGG NTGCTAAA 108

SEQ ID NO:2787

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03248

SEQUENCE DESCRIPTION:

GATCTCTGAG GCTNCGGTCA CCACCCACAA GTTGTGGCCT TGGATACCAC ACTNCAGTTG 60
 GGTGGTGATG GGGTNGTGCC TTCTAACTTT TNCNTATCT TTACCGN 107

SEQ ID NO:2788

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03249

SEQUENCE DESCRIPTION:

GATCAGTAAG GATGACTGGT GTTTCTGAC TTNACAAAA TTA CTGTTT GTTTCATTA 60
 AAAAAAAGC ATAANCTATG TTTCTNATTA CTATTAGAAT TATTAAATTT CAAAATGAAT 120
 CCAAA 125

SEQ ID NO:2789

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03251

SEQUENCE DESCRIPTION:

GATCGATTCT NTGACACAAA CCCCACCAAT TGTNAATGCA AGTTTTTATT TGGCTGTATA 60
 TACAATTAA GCTATTAAAA TTTGTACAAT ATTTACAAAT NAAA 104

SEQ ID NO:2790

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03252

SEQUENCE DESCRIPTION:

GATCATTACA TCTNAGATGT ACGTNGGTTT AGTCGGAAAG GTGGGACGAT TTGAAGGGGA 60
 GGNACTTTCA GGT CATAGGC GGATTAAAN ATGTCCTGAT TAAA 104

SEQ ID NO:2791

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03253

SEQUENCE DESCRIPTION:

GATCCAAGCT ATGANATANC CAACAGTATT CAAGANGCAA CCAGCACCAT CATGTGATAA 60
 TGGTACTATG GCATATATGC AACATTAAAN TTTAANTTA GAAA 104

SEQ ID NO:2792

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03255

SEQUENCE DESCRIPTION:

GATCCAGTCT TAATTTGAGC ATGAGAGCAA AATTTAGTCA TCTACACAAG AAGCAAAAGC 60
 AAGGAATAGT TGTGTTGTTT TNGTTTTTTG GTTGTGTNT TTTTTTGTN GTTAGGNANG 120
 ANGTGTTCCC GN 132

SEQ ID NO:2793

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03257

SEQUENCE DESCRIPTION:

GATCCAGGTG GTGTTACATG TCCATTTTCAT GTTTTGGGGG CTTTtagccc NACAAAACAC 60
CTTCAGTAGA GCCTTGATTA AAAGGAAACC TGNAGACTCA AA 102

SEQ ID NO:2794

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03258

SEQUENCE DESCRIPTION:

GATCTTCCCC TAGGGGGCCC TCTTACTCCT NCCTCTCTCC TCCTCCTTCC CCATTGCTGT 60
AAATATTNA ACGAAATGGA AAAGAAAAA AAAAGACAAA 100

SEQ ID NO:2795

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03259

SEQUENCE DESCRIPTION:

GATCACACAT CAAGACTATC TACAAAANTT TATTATATAT TTACAGNAGA AAAGCATGCA 60
TATCATTAAA CAAATAAAAT ACTTTTATC ACAACACAAA 100

SEQ ID NO:2796

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03261

SEQUENCE DESCRIPTION:

GATCTAAATA CAAAGGATAT ACAGTCTTGA NTCTAAAATA ATTTGCTAAC TATTTTGATT 60
CTTCAGAGAG AACTACTAAT AAAAATCTAA AAGGTAAA 98

SEQ ID NO:2797

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03263

SEQUENCE DESCRIPTION:

GATCGTNCCT ATAAATAGTA GGACCAATGT TGTGATTAAC ATCATCAGGC TTGGAATGAA 60
TTCTCTCTAA AAATAAAATN ATGTATGATT NGTTAAA 97

SEQ ID NO:2798

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03264

SEQUENCE DESCRIPTION:

GATCACTAAA GTATATCTTT AATTCTGGGA GAAATGAGAT AAAAGATGTA CTTNTGACCA 60

TTGTAACANT AGCACAANTA AAGCACTTGT GCCAAA 96

SEQ ID NO:2799

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03267

SEQUENCE DESCRIPTION:

GATCTGCTGT CTCGTCCTT CCTGGGTCCC AGCAGCTGTC CTGCAGCTGT CAGCAGGAGG 60

GCCTGGCTTT AATAAAGAGT GGACAACTG AAA 93

SEQ ID NO:2800

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03268

SEQUENCE DESCRIPTION:

GATCAAGTTC GAGGAGGCAG TCATCGCTCG AAACCGGGCC CTGGAGGGCC GCTNACCCTG 60

CCGGANATAA AGNATACAGA GAGCCCTCC AAA 93

SEQ ID NO:2801

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03271

SEQUENCE DESCRIPTION:

GATCCATTCT TGTATTGATA GATATTTGAA TGTTTCCAGT TTTTCCTATT ATGAATAAAA 60

CTGCTATGAA CATTCTTGTA TAAATCAAA 89

SEQ ID NO:2802

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03274

SEQUENCE DESCRIPTION:

GATCGACAGC GTCCTGGCCT AGGGTGCCGG GGCCTGAAGG TCAGGGTCAC CCAAGCAACA 60

AAGTCCCGAG CAATGAAGTC ATCCACTCCT GCAA 95

SEQ ID NO:2803

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03279

SEQUENCE DESCRIPTION:

GATCTCTACA GAGAGAAGTG GAAAATGCTG TATCAAGGGT GGGCTTAGCT GTGCCTTTCC 60
AATAAAGATG TGAGAAGCTT CAAA 84

SEQ ID NO:2804

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03281

SEQUENCE DESCRIPTION:

GATCTTTGCC CCTGGTATGC ATTTNTGGAC TCCACTGAAT CCTGNGAAAA AAAATTAAAC 60
TTCCTTCTTA CTGCCCCAA 79

SEQ ID NO:2805

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03282

SEQUENCE DESCRIPTION:

GATCCTGTCA GTTCCATNAG CTATTCCTCT TTGGTTTGGC TTTTGTATAT NATTAAAAATA 60
ATNTTTAATT CCTTTTAAA 79

SEQ ID NO:2806

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03283

SEQUENCE DESCRIPTION:

GATCAATTTT TATAAAAATC GAGACAGTTC TGTGGTTAAA TCTACAAATT AAAGGGAAAT 60
TAGAAGTTGG CGTAAAA 77

SEQ ID NO:2807

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03284

SEQUENCE DESCRIPTION:

GATCTATTTT ATGCATATTG TTTATAAAGA CACATTTACA ATTTACTTTT AATATTAAAA 60
ATNACCATAT TATGAAA 77

SEQ ID NO:2808

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03286

SEQUENCE DESCRIPTION:

GATCTTCAGT AAGTCTCTCA GGCTCTCTGA GCTTGTTTCAT CCTTGTTTT GAAAAAATTA 60
CTCAACCAAT CCAAA 75

SEQ ID NO:2809

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03289

SEQUENCE DESCRIPTION:

GATCCCTTCA CAGCAGTAAA CCAGCTCTTT GGAACCGATT CCATCACCCC AATAAAGGAG 60
CTCTTCACAG CAAA 74

SEQ ID NO:2810

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03294

SEQUENCE DESCRIPTION:

GATCTGTTTC TTTTAAATT TACACTTTN CTTCCGGTT TGCCGGAATA AACAGGACCT 60
TTGACATTTG AAA 73

SEQ ID NO:2811

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03296

SEQUENCE DESCRIPTION:

GATCCATTCT AAGACTTATT GGCTGTTTGG AAGTGATAGC AAATAAAANC CACCTTGAAC 60
TGAAAA 66

SEQ ID NO:2812

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03297

SEQUENCE DESCRIPTION:

GATCCGAGGG GGAGGGGTGG GAAGGGGAGA AATNAAATA AAAGATAATT ACTGAACACG 60
CCGNAAA 67

SEQ ID NO:2813

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03299

SEQUENCE DESCRIPTION:

GATCATTGAA TTTAAGGCC ACCCCAAGTC CAGANTGACC TCGCAAGACC CTAACTCAC 60

AAA

63

SEQ ID NO:2814

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03300

SEQUENCE DESCRIPTION:

GATCTTTTGT ACTTNTNATA ACCTAATGTC AGACTAAGAA AAATAAAATA TCTGAGAGTA 60

AA

62

SEQ ID NO:2815

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03304

SEQUENCE DESCRIPTION:

GATCCCTTCG AGACTAANTC TGTTACCAGT CATGAAACAT TAAACCTAC AAGCCTTAA 60

SEQ ID NO:2816

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03305

SEQUENCE DESCRIPTION:

GATCTTTGTC TTTTGTGATG ACAAAGCATT TATTTAATAA AGTTATGCAN TCAGTTAAAA 60

AAANCAAA

68

SEQ ID NO:2817

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03306

SEQUENCE DESCRIPTION:

GATCAGATTT TTTATGCCAT CCTCATTAGT TTTCCAATAC AATATAAGTT GAAACAAA 58

SEQ ID NO:2818

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS03307
SEQUENCE DESCRIPTION:
GATCTCAGAC TTCTGGCTTC CACAACGTGA ACAATAAATT TATGTCGTTT AAGCCAAA 58

SEQ ID NO:2819
LENGTH:57
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03308
SEQUENCE DESCRIPTION:
GATCCACTGG GTGAATCCTC CCGCTCAGAA CCAATAAAAT AGAATTGACC TTTTAAA 57

SEQ ID NO:2820
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03310
SEQUENCE DESCRIPTION:
GATCTGTGGT CATTGTCCCT CTGCAGAATA AAGATTGCTC AGGCCTGCCT GGCAAA 56

SEQ ID NO:2821
LENGTH:59
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03311
SEQUENCE DESCRIPTION:
GATCTTTGGT TTGTTTCCAG GTTTGGTTAT TATNAATAAA GTTGCTGTGA ATACTTAAA 59

SEQ ID NO:2822
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03312
SEQUENCE DESCRIPTION:
GATCTTCATT GGGGGATTGA GCAGCATTTA ATAAAGTCTA TGTTTGTATT TTGAAA 56

SEQ ID NO:2823
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03313
SEQUENCE DESCRIPTION:
GATCTAAGAA ATAAAGAGAA ATGTTTCANT TTGCATTGAA ATAGGAAAAC GAAA 54

SEQ ID NO:2824
LENGTH:53
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03315
SEQUENCE DESCRIPTION:
GATCATNACT GGCTTTGCGC ATCGAGGGGC CATTAAAGAG TCTACTTTTC AAA 53

SEQ ID NO:2825
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03318
SEQUENCE DESCRIPTION:
GATCTTTTAA AAAGTCAAG TGTGAATAC TAGAGGTTGT TAGACNTTA AA 52

SEQ ID NO:2826
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03319
SEQUENCE DESCRIPTION:
GATCTTGCCA CTGTAGTCCA GGCTGGGCTA CGGAGAGACC CTGCCTCCAA A 51

SEQ ID NO:2827
LENGTH:54
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03324
SEQUENCE DESCRIPTION:
GATCCTTGCT GATAAATATA ACCATCAATA AAGAAGCATT CTTTCCAAA GAAA 54

SEQ ID NO:2828
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03325
SEQUENCE DESCRIPTION:
GATCTCACCA CACTGCAACC TCTGGCGACA GAGCGAGACT TGGTTTCAAA 50

SEQ ID NO:2829
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03326

2153480

SEQUENCE DESCRIPTION:

GATCCACCCA CTCTCTGAAA CTTCTTTGCT AATAAAACAT TCCTACTAAA 50

SEQ ID NO:2830

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03331

SEQUENCE DESCRIPTION:

GATCTTTTTT TTTCCTTACA GACACCCATA ATAAAATATC ATATTAAAAT TCAAA 55

SEQ ID NO:2831

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03332

SEQUENCE DESCRIPTION:

GATCCAGGGG GAAATGCTGG AAGTCAATAA AACTGAGTTT TGAGAGCTTG AAA 53

SEQ ID NO:2832

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03356

SEQUENCE DESCRIPTION:

GATCCACATA AAAAGAAATG TGAAGTTTTC TTTTACTATC TTTTCATTTA TCAAGCAGAG 60
ACCTTTGTGG GGAGGCGGTT TGGGAGAACA CATTCTAAT TTGAATGAAA TGAAATCTAT 120
TTTCAGTGAA A 131

SEQ ID NO:2833

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03374

SEQUENCE DESCRIPTION:

GATCTGCTGA TTGCATTATT TTAATTTGCT TTTCTGGGAA AGCAGTTTTG CTAAAAGCTG 60
TACAGACTTT TNCTTTTGTA CCTAGCAGTA CTTTATATAG TATAGCTTTG GGCCATGTAG 120
CATTTTAAGA CTCAATTTTA AAAAAATNATT AATCTGTTGC TGA CTCTTAA TTCCTATTTT 180
AATATGTGTT TCCTTGAAGA ATTCAGGATA CAACTTCTTG TGTATGACAG CTTTCCTTCA 240
CACACTATTT TNGTGGGTGT GTATATATCT GATTGCGGAA GAATTTAAAA AACACATAGC 300
TTTTNAATTN GTTTGAAACA GACTTCTGC CTGTGACATT TNNGCNTTTA NCCAATTAAA 360
GAAGCCAATG GCATTTTNGG TTTTATATNG TGTTCCTCAC TAGTATATCC CTGTGGATT 420
GTTTGTGCCC N 431

SEQ ID NO:2834

00996

LENGTH:429

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03375

SEQUENCE DESCRIPTION:

```
GATCCCATGG GTGGCACATT GGGACTTCTN TCCCTCCCCC ATCTACACAG AAGACTGTCA 60
CCATGCTGAC AGAAGCCTGT CCTTGTAAGG CCCAGCCTTC CAGGGGAACA CTCAGACATG 120
TTCATTCTCT TCCTGCTTCT GCTCTGGGCC GGTGGGTGGC TCTCAGAAA TACTTGCTGC 180
TGGCAAAAGG CCTGTACTCA GGCATTGCTT TTGACTTGAT GTTGCCAAGG GACTGAGGCC 240
ATTGGCAGGC TTAGTACCAC CTGCTCCTCA TCTTAGGAGT CTCCTTTTCA AATAATTAGG 300
CTCTGTTCCC ATTTTAAAC TCTGATATTG GGCTTCACCT GTGACTGGAC ACTTTACTAG 360
AGGCCCATTT NCACTAAACA NTAATCTA AATAATTGG AAGGAATAAC AACNACAAAG 420
GGNTAGAAA 429
```

SEQ ID NO:2835

LENGTH:427

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03376

SEQUENCE DESCRIPTION:

```
GATCTGGGCT TCCTNACTTC TGGAGAAGTG GCCATCCCAT GCCACCTTT NCCATGGAGG 60
AGTGGGCCCT GCCAGCTGCC ACAGCTGCAT GACCTGCTTC CCCACCCAC GGTGTCGTTT 120
TNTTTTNAAG GGTCACCTGT CCTCACTCAC CCAGCCAGCC CTTCAGGTGC NTTCTACTCC 180
CAGTGCCAAA GCCAGACCAC TGGGGTTTCC TGCTGCAGGA ATTGGGGGCT GGGAACAGCA 240
GAGGGGATAG AAGTNTGGTG GAGGTGGAGT GGGCACGCNT TAGCCTACGG AAAGGNCCAT 300
TTTTTGGGNC CACTGAGCTG CACTGGGATT TTTCANTTCT GGNCTGANT NCCTTTAGGG 360
NAAATAACAC AGCAGGACCN CGGTGGGGAT TTAAAGNACT TTTTTTNNNA GATTNAAANG 420
GNTTCTN 427
```

SEQ ID NO:2836

LENGTH:416

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03377

SEQUENCE DESCRIPTION:

```
GATCCTGATG CTGCCAGAGC CATTGTGGAT GCTTTACCAC CACCCTGTGA ATCTGCCTGC 60
ACAGTACCAA CAGACGTGGA TAAGTGTTTC CATCACCAGA AAAACTAATG AGATTCTCT 120
GGAATACANG CTGATATTGC TACATCGTGT TCATCTGGAT GTATTAGAAG TAAAAGTAGT 180
AGCTTTTCAA AGCTTTAAAT TTGTAGAACT CATCTAACTA AAGTAAATTC TGCTGTGACT 240
AATCCAATAT ACTCAGAATG TTATCCATCT AAAGCATTTC TCATATCTCA ACTAAGATAA 300
CTTTTAGCAC ATGCTTAAAT ATCAAAGCAG TTGTCAATTTG GAAGTCACTT GTGAATAGAT 360
GTGCAAGGGG GNGCACATAT TGGNTGTATA TGTTNCCNT ATGTTAGGGG ATAAAN 416
```

SEQ ID NO:2837

LENGTH:398

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03378

SEQUENCE DESCRIPTION:

```
GATCAAAGAT GAGGCCACAA GGACACCAGC AACTGAAGAG GCTGCCTACT TGGTATCAAG 60
ACTGAAGGAG AACTACGTTT TGCTGAGCAC TGATGGCCCT GGGAGGAACA TCCTGAAGTT 120
TAAGCCCCCA ATGTGCTTCA GCCTGGACAA TGCACGGCAG GTGGTGGCAA AGCTGGATGC 180
CATTCTGACT GACATGGAAG NGAAGGTGAG AAGTTGTGAA ACGCTGAGGC TCCAGCCCTA 240
AGCCAGCCCT GCTCTGCCTA AGTGTACTCC AGAAGAACT CATCTCATCC AAATACACGC 300
TATTGAGAAG GCGAGCCTGA CCTCCCTCTT ACAGATAAAG TCAGCTTTCA GAGGCTCAGG 360
GTGGGGGGGC CTGCCCAGAG CCATAATGCT ACCCACCN 398
```

SEQ ID NO:2838

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03379

SEQUENCE DESCRIPTION:

```
GATCGCACAC ATGCTTTGTT TGGAATATGG AGTGAACACA ATTATGTACC AAATTAACT 60
TGGCAAACCTT NCTATTGCCT GTCCCATGTG CATCTNATTT AAAATTTCCC CCATGGAAAT 120
CACTCTCCTG TTGACTATTT CCAGAGCTCT AGGTGTTTAG GCAACGTGTG GTGCCTGAG 180
ANGGCCATAG CGCCATCATG GGCTGATTTT AATTACCAGG TCCCCAGAA GCAGGTGGGA 240
GGCTCTGCTT CCTGCTGGCC GTTCTGCAGC CTGGACCTGT GGACCCTGGT TGTAAAGNGT 300
AAATTGTTTT CTTANGGAAA CCAGTGTCAC CTTNTNTNAA CCTTTAAANT TAAAAAATAN 360
TTTGGGGGAA NAAATTNCNG NNACNGGAGG GTTAAAATTT ANCNANN 408
```

SEQ ID NO:2839

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03380

SEQUENCE DESCRIPTION:

```
GATCCACCAG CTGAGCAGGG CGGGGCTGAG TAAATGCCGG CTTACCATCT CTACCATCAT 60
CCGGTTTAGT CATCCAACAA GAAGAAATAT GAAATTCAG CAATANGAAN TGAACAAAAG 120
ATTGGAGCTG AAGACCTAAA GTGCTTGCTT TTGCCCCGT GACCAGATAA ATAGAACTAT 180
CTGCATTATC TATGCAGCAT GGGGTTTTTA TTATTTTAC CTAAAGACGT CTCTTTTGG 240
TAATAACAAA CGTGTTTTTT AAAAAAGCCT GGNTTTTCTC AATACGCCTT TAAAGGTTTT 300
TAAATTGTTT CATATCTGGT CAAGTTGAGA TTTTTAAGA ACTTCATTTT TTAATTTNGT 360
AATAAAAGTT TTNCAACTTT GATTTTAN 388
```

SEQ ID NO:2840

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03381

2153480

SEQUENCE DESCRIPTION:

GATCTTGCTG AAAGTGTTTC TAAAGATAGC ACCACTTTTT TTTNAAAGC TTTTATATAT 60
NAAAAAACGT ATCATGCAAA 80

SEQ ID NO:2841

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03382

SEQUENCE DESCRIPTION:

GATCTTGCTC TAGCCTTTTN ACTTTTGCAA TTTCAGTATC TTCATCTCTA AACTAGGGAA 60
ACACTNGGAT TCTTCTTAG CTGTGGGGGA AGGTATTGG TTAGATGACT TTGAATGAAT 120
AGACTGCTGT GCTGAAAGAG CTTTATCACA CTGTCTCAA GTATGTAAAG ATACATAGGT 180
GGATGCTCTT ACTGCAGCAG TCATGAATAC ATTTTGTAGCC ATTTACCTAA GGAAAAAGAC 240
AGTTTTCTA GGTACCATGA AGGAAGATTG ACCCTGTTGG TATGCCTGTG GGGGTGGGAT 300
GTGAGTGGGA CTGATAAACT GATACTTTG GTTCGTATGT ACATACTGGN AGAATCTTCA 360
TANTAAATGN GACTACACAA CAAA 384

SEQ ID NO:2842

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03383

SEQUENCE DESCRIPTION:

GATCCAGGGC AAGGCCATTG GGATATTCTG AAACCTGAAT ATTTGTTTT GTGCAGAGAT 60
AAAGACCTTT TCCATGCACC CTCATACACA GAAACCAATT TTNTNTNTNA TACTCAATCA 120
TTTCTAGCGC ATGGCCTGGT TAGAGGCTGG TTTTTCTCT TTTCTTTGG TCCTTCAAAG 180
GCTTGTAGTT TTGGCTAGTC CTTGTTCTTT GGAAATACAC AGTGCTGACC AGNCAGCCTC 240
CCCCTGTCCC CTCTATGACC TCGCCCTCCA CAAATGGGAA AACCAGACTA CTTGGGAGCA 300
CCGCCTGTGA AATACCAACC TGAAGACACC GTTCATTGAG GCAACGNACA TAACAGNAAA 360
TGAAGGTGGA CANGCN 376

SEQ ID NO:2843

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03384

SEQUENCE DESCRIPTION:

GATCCCAAAC CTAGCCCCCT AGTGGGACAA GGACCTGACC CTCCTGCCCG CATAACAAC 60
CCATTTCCCC TGGTGAGCCA CTTGGCAGCA TATGTAGGTA CCAGCTCAAC CCCACGCAAG 120
TTCCTGAGCT GAACATGGAG CAAGGGGAGG GTGACTTCTC TCCACATAGG GAGGGCTTAG 180
AGCTCACAGC CTTGGGAAGT GAGACTAGAA GAGGGGAGCA GAAAGGGACC TTGAGTAGAC 240
AAAGGCCACA CACATCATTG TCATTACTGT TTTAATTGTC TGGCTTCTCT CTGGACTGGG 300
AGCTCAGTGA GGATTCTGAC CAGTGACTTA CACAAAAGGC GCTCTATACA TATTATAATA 360
TATTCGCTTN 370

00999

SEQ ID NO:2844

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03385

SEQUENCE DESCRIPTION:

```
GATCTGTCAT CTGGTGCTGC CAGCTGTGCT CACTCTGGTT TTCTGCTCAG GGTCTGAAGC 60
AGCTGCTGTC TNCCTCCTCT GCCCCATCC CCTGGCTCTC CCCTGGGCAC AGTGCCACTC 120
CCTTGGAAGG GAGGGAACCA CCCGTNAGCC CCAGGGCTTG GNAAGCCTGA GCGGTGNCT 180
CTGCCTCTCC CTGCCCCCAG CACAATTGGC AGAGATGAGG CGGGTGGTGG ACGGCTGGGG 240
GTGTCGTGGC AGGGTCTNGC ACAGGGNCAT GTCCTGGCTG TAACCCAGGC AGTGGGAGGT 300
CTGCAAGCCT GGTATGGCC TTCACAGCAN GGTNCCTGTT GGACAGACAT ATCTGNATAT 360
TTATNAA 367
```

SEQ ID NO:2845

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03386

SEQUENCE DESCRIPTION:

```
GATCTCCAAC ACTATCCGAT AAAGTAGAAG CAACTGAGGT ACCGTGAAAG AGAAAGGAGC 60
TGGAAGTGAG AAAAAGCAGA GGATTCGGAC GGAGAGCGCG AGGACTCGGC GGCTGAGCGC 120
GCCCCAGAGC AGCTAGAGGC GCTGTCAAC AAGACTATGC GCATTCGCAT GACAGATGGA 180
CGGACACTGG TCGGCTGCTT CCTCTGCACT GACCGTGACT GCAATGTCAT CCTGGGCTCG 240
GCGCAGGAGT TCCTCAAGCC GTCGGATTCC TTCTTGCCG GGGAGCCCCG TGTGCTGGGC 300
CTGGCCATGG TACCCGGACA CCACATCGTT TCCATTGAGG TGCAGAGGGA GAGTCTGACC 360
GGGCCN 366
```

SEQ ID NO:2846

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03387

SEQUENCE DESCRIPTION:

```
GATCCCCCA AGGNGAAGTG TGAGACAATG GTCTATCACC CCAACATTGA CCTCGAGGGC 60
AACGTCTGCN TCAACATCCT CAGAGAGGAC TGGAAGCCAG TCCTTACGAT AACTCCATA 120
ATTNATGGCC TGCAGTATCT TTNCTTGGAG CCCAACCCCG AGGACCCACT NAACAAGGAG 180
GCCGCAGAGG TCCTGCAGAA CAACCGGCGG CTGTTTGAGC AGAACGTGCA GCGCTCCATG 240
CGGGGTGGCT ACATCGGCTN NACCTACTTT NAGCGCTGCC TGAATAGGG TTGGCGCATA 300
CCCACCCNNG GCCACGGCCA CAAGCCCTGG GCATCCCCTG CAAATANTTN TTGGGGGGCC 360
ATGGN 365
```

SEQ ID NO:2847

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03388

SEQUENCE DESCRIPTION:

GATCTAGAGT ATGTTGAAGA AGATGGACAT GTGGTGGTAC GAAAACAATT CCCCTGTGGC 60
CTGCTGGACT GGGTGGAACC AGAACAGGCT AAGGCATACA GTTCTTGACT TTGGACAATC 120
CAAGAGTGAA CCAGAATGCA GTTTCCTTG AGATACCTGT TTTAAAAGGT TTTTCAGACA 180
ATTTTGAGA AAGGTGCATT GATTCTNAAA TTCTCTCTGT TGAGAGCATT TCAGCCAGAG 240
GACTTTGGAA CTGTGAATAT ACTTCCTGAA GGGGAGGGAG AAGGGAGGAA GCTCCCATGT 300
TGTTTAAAGG CTGTAATTGG AGCAGCTTTT GGCTGCGTAA CTGTGAACTA TGGCCATATA 360
TAAN 364

SEQ ID NO:2848

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03389

SEQUENCE DESCRIPTION:

GATCTGGGGA GGCAGGCATT CCTGAAGGGA ACTAGAGGTG TTACAGAGGA CCCTTACGTG 60
AGAAATAGCT GAAAAGGGCA CTCGCAACCC TGGGCTGGGG AGGAGGAGAG AGTCCCAGAG 120
CTCATCCCC CTGCTGCCCA GTGCAAACCA CTTNTCCATG CTGCAAAGGA GAAGCACAGC 180
TCCTGCCAGG GTGAGCAGGG TCAAGCCTCT TATTCCAGGA GAAGGGGGCT CTGCCCAGGC 240
CCTACTACCN ATTGTNCCCT TCCTCTTCTT GCCCTTGGA CCCCCTNCCT GTCCCAGGGC 300
CCTTCNAGCC CATTGCTGCC AAGGTGGAGG GANGGATAAA GNCACTTCTG GGTTTGAAG 360
CCN 363

SEQ ID NO:2849

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03390

SEQUENCE DESCRIPTION:

GATCTGGGTG TGGCCAAAAA CAATTTTNTT TATTCTGTCT ATCAAATAGT ACTTCTACCA 60
CTGTTTGGAG AAAATTGAAG AAAAGAATAA GATGATTAAG TGAATTCTCT AAAAGAACAT 120
ATTTTAAGAG ACAGAACTTA GACATAACCA AGTAGTTGTA TACCTGATTG TAACAATCAT 180
CTTTTATAAA AGCAAAATTA TGCATAAATG TAAACACCC CTAACAAAG GGAACAAATG 240
ANTTTTTGGT TATATTGTTT TCTTGGCTCA AAGTATCAAT TTATTATTAT AATAGAAATT 300
TATAAGTTGC TAGAAAGTCT ATATTTTAA CGCACGGAAT AAAANTATGT TTTCTATTAA 360
A 361

SEQ ID NO:2850

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03391

SEQUENCE DESCRIPTION:

GATCTGTCTC CAAGACCTTG GCCTCTCCTT GGAGGACCTT TAGGTCAAAN TCCCTAGTCT 60
 CCACCTGANA CCCTGGGAGA NAAGTTTGAA GCACAACTCC CTTAAGGTCT CCAAACCAGA 120
 CGGTGACGCC TCGGGGACCA TCTGGGGCAC CTGCTTCCAC CCGTCTCTCT GCCCACTCGG 180
 GTCTGCAGAC CTGGGTTCCC ACTGAGGCC TTTGCAGGAT GGAACACGG GGCTNGNAGG 240
 AGCTTTTGTG TGCCTGGTAG AAATATTTC TGTTCAGTC ACATTGGCCA TCACTCTTGT 300
 ACTGNCTGCC ACCGNGGAGG ANNCTGGTGA CAGGNCAAAG GCAGTGAAG GAAAN 355

SEQ ID NO:2851

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03392

SEQUENCE DESCRIPTION:

GATCTAGTTC TACGTATTAC ACAGGTGTAA TATCTGTGAG TGTAATAAC TGGAACGTGA 60
 CACTGATTAA CATGNCAGTT TCTCTTTGT TGTCTTATC TGTACTGTAT TATAGTATGT 120
 GGGTATAAAT ATCTACAAGT ATACACACAT ATGTNCTNGT ATTCCACTAT TGTAACCTGG 180
 AAGAAAGACT ATGNATNCCC TNTTNAATT CCGTACTGGT ATNGTGTTA TTTAAAAAGC 240
 AAAATNCGGC TCTATTTAGT TGTATAATAT TAGAGGGTAC TNNGCTTGN CACAATTCCA 300
 AGTGGCCTTA GAGCATTGTT TAGCTNNCCG AAGTATATAT AANN 344

SEQ ID NO:2852

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03393

SEQUENCE DESCRIPTION:

GATCTATGAG CCTGTNTNGG ACAGCCAGAT GGTCAATATA GTCACGGTGG TGTCGGTNTT 60
 GCTGTCCCTG TTCGTNACAT CTGTCCTGCT CTGCTTCATC TTCGGCCAGC ACTTGCGCCA 120
 CNGCGGATGG GCACCTACGG GGTGCGAGCG GCTTGGAGGA GGCTGCCCCA GGCTTCCGG 180
 CCATAGCAAC CATGANTGGC ATGGCCACCA CCACGGTGGT CACTGGAAC NAGTGTGACT 240
 CCTCAGGGTT GAGGTCCAGC CCTGGCTGAA GGACTTGTA CAGGCAGCAG AGACTTGGGA 300
 CATTGCCTTT NNTAGCCCGA NTACAAACAC CTGGACTTAA A 341

SEQ ID NO:2853

LENGTH:567

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03394

SEQUENCE DESCRIPTION:

GATCTCAAGA CCAAAGACAG ATGTCAGTGG GCTGCTCTGG CCCTGGTGTG CACGGCTGTG 60
 GCAGCTGTTG ATGCCAGTNT CCTCTAACTC ATGCTGTCTT TGTGATTAAA CACCTCTATC 120
 TCCCTTGGGA ATAAGCACAT ACAGGCTTAA GCTCTAAGAT AGATAGGTGT TTGTCCTTTT 180
 ACCATCGAGC TACTTCCCAT AATAACCACT TTGCATCCAA CACTCTTCAC CCACCTCCCA 240
 TACGCAAGGG GATGTGGATA CTTGGCCCAA AGTAACTGGT GGTAGGAATC TTAGAAACAN 300

GACCACTTAT ACTGTCTGTN TGAGGCAGAA GATAACAGCA GCATCTNGGN CCAGTCTCTG 360
 CCTTAAANGG AAATCTTTAT TAATCACGNA TGGTTCACAG ATAAATTCTT TTTTAAAAA 420
 AANCCCANNC TCCTNGGGAT GCACANCCTG TCAAGNGTCT TTTTACACAC AANTTTCAGG 480
 TTTNNCATCA CGGGGCTTTG ANTTNAGGA AATNAAAGN GGGACAAATT TNGTTNGTTT 540
 ACNCTATGGT NCTTTNNTAA NAAACNN 567

SEQ ID NO:2854

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03395

SEQUENCE DESCRIPTION:

GATCTTTACT TTTTACTTT TTATTCATCT TTGTGTTTTT ATTTATCTAA AATGGGTATT 60
 GATTTTAAGG ACGGTTTTGA AAAAGAAAAG TGTTGGGAAT GAAGCAAGTG ATTGATTGGA 120
 AAACATACTG AATGGAAGAA ATATTTAGAT TAAAAATGAG GTAGGTTGAA GTTCTNCTC 180
 TGAAATNATA GATAAATGGT GAAGATAAGG CTTATTGTGA GGNITCAGTG AGGTAATATA 240
 TGCAAAGTAC TTACAATGTT CTGGCACATA GTAATTNATT NNGANAATCG AGCACCCCTTA 300
 ATTACCTAGA ATGCAGGGTT GTTAGTTTTT NGGTTGACTT TTGTTTTNN 349

SEQ ID NO:2855

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03396

SEQUENCE DESCRIPTION:

GATCCGCTGT ATTGTGGAGT ATCAGAACAA GGGCCGCGGG AACGAGNGCG TGCAGTACCA 60
 GCATGTGTTA CATAGAAATC TCATTTATTT GGCTACCATT GCAGATGCCA GTCCAACCAG 120
 CACTTCAAAA GCAATGGAAT AATCTTTCAA AAGCAATAGA ATAATCTTCC ATTTGGCTGT 180
 CGTGAGGAGT AATTGAATGT AATCCATCTC TTACAAAATG GAGACAGGGT CTTTACCAAC 240
 TCAACTGGTT AAAACATGAN TGAAACCTCT GTGGCTCTTT CAAAACGTGG AAAATGTGAA 300
 GAANGCTACT TAACCTNGGC TGTATTCTCA TGGN 334

SEQ ID NO:2856

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03397

SEQUENCE DESCRIPTION:

GATCGGCCTG CTGCTCCGCA ACTTCGACCG CTACGGCGTG GAGTGCTGAN GGACTCTGCC 60
 TCCAACGTCA CCACCATCCA CACCCGGAC ACCCAGTGAT GGGGGAGGAT GGCACAGTGG 120
 TCAAGAGNAC AGACTCTAGA GACTGTCAGA GCTGACCCCA GCTAAGGCAT GGCACCGCTT 180
 CTNTCCTTTC TAGGACCTCG GGGTCCCTCT GGGCCAGTT TCCCTATCTG TAAATTGGGG 240
 ACAGTAAATG TATGGGTCG CAGGGTGTG AGTGACAGGA GGCTGCTTAG CCACATGGGA 300
 GGTGCTCAGT AAAGGAGAGC AATTCTTACA AA 332

SEQ ID NO:2857

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03398

SEQUENCE DESCRIPTION:

```
GATCCTGGGT GTNTNTGTAA GGGTNTTGCC AAAGGAGGTT AACATTGGAC TCANTGGGCT 60
GGGGAAAGGC AGACCCACCC TTAATCTGAG TGGACACCAT CTAATCAGCT GCCAGCGAAA 120
ATAAAGCAGG CAGAAAANTG AAAAANNTAG ACTGGCCTAG CCTCCCAGCC TACATCTTTN 180
TCCCATGCTG GATGCTTCCT GCCCTTGAAA ATTGGACTCC AGGTTCTTNA GTTTTGGGAC 240
TTGGACTGGC TCTCCTTCCT CCTCAGCCTG CAGACATCCT ATTGTGGGAC CTTGTGTTTC 300
TGTAAGTTCA TACTTAATAA ACTCTCCATA N 331
```

SEQ ID NO:2858

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03399

SEQUENCE DESCRIPTION:

```
GATCGAGTCT ATACGCTGAA GAAANNTGAC CCGATGGGAC AACAGACCTG CTCAGCCCAT 60
CCTGCTCGGT TCTCCCAGAG TGACAAATAC TCTCGACACC GAATCACCAT CAAGAAACGC 120
TTCAAGGTGC TCATGACCCA GCAACCGNGC CCTGTCTTNT GAGGGTCCCT TAAACTGATG 180
TCTTTTCTGC CACCTGTTAC CCCTCGGAGA CTTTCGTAACC AAACNTTTCG GACTGTGAGC 240
CCTNATGCCT TTTTGCCAGC CATACTCTT TGAGCATCCA GNNTNTNGTG GCGATTTGAT 300
TATGCTTGTT GTGAGGNAAT CATGGGTNGG CNTCNCCNT TAANGGGGTG N 351
```

SEQ ID NO:2859

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03400

SEQUENCE DESCRIPTION:

```
GATCCTGGGG GCCTGGGTTG GGGGCTAGGG AGACGCCATG TGATGGACAC TCCAGGGACA 60
CACAGCCTAG CACAGCAGCT TATAATGGGC TCTCCGGGGC CATTTGCAAT AACAGCTGCA 120
ATTCCCTGGA TAGACGAGTT GATTTCTCC CTCTGCCCCT CCCCAGCCA TGCCAGCTGG 180
CCTTTGTAAG TGCAGGAAAC CGAGTAGAAA ATGTGACCCT CCAAATGGAG AAGCTGCAGG 240
CTTTGCCATT GTGAACCATG GTGAAGTGCT TGGAACATAC TGTTCACTCA CTCTAAAGGN 300
GCTGAGACTG TGCTGTTGTT CTCGTTTTTN 330
```

SEQ ID NO:2860

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03401

SEQUENCE DESCRIPTION:

GATCTGGAAA GGACATGACT TCTGAAATAG CCGCTGCTGG GTTTTAAAAG CTGAGGTCTC 60
 TCAAAGTGTG GAGGAGACGT TGCCGTCAGN GGGAGCCAAG TGCCGGGAAG ATGTCTATTT 120
 TTTTCCTTGT GTATTGAAAA TCATGATGTT TGTTATGACT GCTGATGCGA TTGTNTTTGT 180
 AAATNTNATT GTGGCATATA CAGTATTGTC ATACAGTTGA AGAGAAACAA TGTTTCCTAA 240
 TGTAAGTNCT CTGAAATGT TGACACTGTA TATATATATA TNAGGATAGT TTGTNTTTCN 300
 NTGTTTGGGG TTTNNNTTN TTTGNGTGN 330

SEQ ID NO:2861

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03402

SEQUENCE DESCRIPTION:

GATCTTAAAC CCAAAGTACG AGAAATGTTT CTGTTGAATG TAATGCTACA TGAATGCTTG 60
 ATTTATCAAG CGCCAAAAAG GCATTGTATA GTAGGAAATG TAAGTGGGGT GGCTTATGGC 120
 TTCTTTATCC TCTGATTCTA GCACTTTCAA GTGAGCTGTT GCGTACTGTA TCATATTGTA 180
 GCTATTAGGG AAGAGAAGAA TGTTGCTTAA GAAAGAACAT CACCATTGAT TTTAAATACA 240
 AGTAGCAGGG TATTGCCTTT GATTCAACTG TTTTAAGTCC TCATTTTCT CAAACTAAGT 300
 GCTTGCTGTT CCCAAATATG GCAAGGNATA GCTTTTACAC TTTTCCCTG CCAACANNTC 360
 NTNGATTGGC TTTGCAGANA TNNAGGTTTG ANTTGN 396

SEQ ID NO:2862

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03403

SEQUENCE DESCRIPTION:

GATCCAAAGT GACCCACCA GGGGACAGCC AGAGGAAGGG GACCATGGGG TATCCNNAGT 60
 GTCCTGGTCT ATCACCAG CTTCTTTGTC CCCCAGTACC CCCAGCCAG CCAGCCAATA 120
 AGAGGACACA AATGAGGACA CGTGGCTTTT ATACAAAGTA TCTATATGAG ATTCTTCTAT 180
 ATTGTACAGA GTGGGGCAAA ACACGCCCC ATCTGCTGCC TTTTCTATTG CCCTGCAACG 240
 TCCCATCTAT ACGAGGTGTT GGAGAAGGTG AAGAACCCTC CCATTCACGC CCGNCTACCA 300
 ACAACAAACG TGCTTTTTTC CTNTTTGAAG 330

SEQ ID NO:2863

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03404

SEQUENCE DESCRIPTION:

GATCTTATTT TCTGAGAAAT TGATAGCAAA TATGCCAGAA AGTGGACCTA GTTATGAATT 60
 CCATCTAACC AGACAAGAAA TAGTATCATT ATTCAACGCA TTTGGAAGAA TTTCTACAAG 120
 TGTGAAAGAA TTAGAAACT TCAGGAACCT GTTACAGAA ATTCAATAAA GAAAACAAGC 180
 TGATATGTGC CTGTTTCTGG ACAATGGAGG CGAAAGAGTG GAATTTTATT CAAAGGCATA 240
 ATAGCAATGN CAGTCTTAAG CCAACATTT TATATAAAGT TGCTTTTGTG AAGGAGAATT 300

ATATTGTTTT AAGTAAACNC ATTTTAAA

329

SEQ ID NO:2864

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03405

SEQUENCE DESCRIPTION:

GATCACTTCA GCTGCCTGCT GTGGACAAAG AACATCAAAT TACAGCATCA CGAGTGCTAT 60
 TNTTGCCTGT GGTGGTCTCC CTGTCCAAGC GGGNCCGCTT TGCAGAGACC AGAGGCATAT 120
 CGCGGCTTGA GCTGAAAATG CATTNTTGC AGCTTAGGTT GAATTATTTT NCGTTTGCTC 180
 TTTCTTCTAC ACGCGCCTGA TGGATAGTGA ACCTATTCAT CAAAAAAGTG CACTGCTCTN 240
 CTGTCTATTG TACCGACTTA ACCTCTTCCA CCCAAGTCCG CATCTGTGTG TATCATCAAT 300
 AAAGTTGGTN GTGCCTTGGN TTGGGCAAA 329

SEQ ID NO:2865

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03406

SEQUENCE DESCRIPTION:

GATCGGCGTG ACCACCCCTT GCCGGAGGTG GCCCATGTNA AGCACCTNTT TGCCAGCCAG 60
 AAGGCACTGA AGGAGAAGGA GAAGGCCTCC TGGAGCAGCC TCTCCATGGA TGAGAAAGTC 120
 GAGTTGTATC GCATTAAGTT CAAGGAGAGC TTTGCTGAGA TGAACAGGGG CTCGAACGAT 180
 NTGGAAGACG GTTNTNGGGC GGTNCCATGT TCTTTAATCG GTTTNAACGT GCTCGTTNCC 240
 CCTNTGGAAA AAGGNCTTNT GTTTACCGGC CCCCTTCCCG AAAAGTTTNN ACAAANGGT 300
 GGGGTTGCCC AAGNAGGCC AANAGGNN 328

SEQ ID NO:2866

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03407

SEQUENCE DESCRIPTION:

GATCTACAGA GTTAGAAATT CGAAACTAT TCCAGGACTA ATTCTTAATC GGCATTATTT 60
 ATACAAGAGG TCAAGTAACA TTTACTAGCG CAATACTGCA CTTGTAAATG AATTATAAAC 120
 GCTCTTCTGG AATATATTTA AATAACCATT AAAGAACTGC TTATTCATNC TGGACACTGC 180
 ATGTNGATGT TGAATCAACT GATGCCAGCA GAAAGCTATT TTGATTGTG AACATACTGC 240
 CTTATTTAAA GGGTCCTGAT TGCTTGATT TTANGNCATT CATTAAAAAG AAACCAGGAA 300
 ACACTTTGA ANTAACAGCA TANGGNN 327

SEQ ID NO:2867

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03408

SEQUENCE DESCRIPTION:

GATCACCCTC CTCCCAAAAA GCAAGAGCTT GTTTATGGCT GAGGAATCGG CGGATTGTCT 60
 GAATGACACA TATACAGAGC CCCCACGGAT TTCTNCACAC TCTGGGTCTG TGCTGGTGGA 120
 ACATTGCCAA TNAGTTCTTA ATGAGGCACC TGTGTGTAAT TACATGCTTG GTCTTCTCTG 180
 CAGAGAACTG AGGCTAAACT CTGTCCCTAC TTCTGTTTTT GCCCTGTNAT GTCGTAACGA 240
 GGTGGGCCTT TTGAGGCCAT TTTAGTTTGA GTTCGAGCCA ACCACCTCTG GTTGGTTAGA 300
 TGATTGAATA AAAAGGTTCT GAAGAAA 327

SEQ ID NO:2868

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03409

SEQUENCE DESCRIPTION:

GATCCAATCA CCTCCACCA GGCTCCACCT CGAATACTGG GGATTACCAT TCAGCATGAG 60
 ATTTNGCAG GAACACAGAC CCAAACCATA CCACACACAT TATCATTGTN AAACCTTGTG 120
 AAGTATTAA GGTACATGGA ACACACGGGN AGTCTGGTAG CTCAGCCCAT TTNTTTATTG 180
 CATCTGTNAT TCACCATGTA ATTCAGGTAC CACGTATTCC AGGGAGCCTT TNTTGGCCCT 240
 CAGTTTCAG TATACACACT TGCCANGTAC TCTTGGTAGC ATCCTGTTTG GTATCATNGC 300
 ACTGGGTCAC ATTGCCTTAC CTAAAN 326

SEQ ID NO:2869

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03410

SEQUENCE DESCRIPTION:

GATCTATGGA ACAGAGGAGG AGCGATGCAG TTGGGAGAGG AAGCTAGAAG GGTATGGTT 60
 GGAGTTCTGT ACAGTGTGGA GTTCCGACA GGGAAAGAGG ATTCCTCCAA TGCGCCTAGA 120
 GAGAAAGCCT GAGCAGGAGA TGATGCAGCA GAGGGGAAGG GCCCTGTGGT GCCGCCGCC 180
 TTCCTTCAGC CTCCGAAGGT GATGGAAATG GAGAGTGGAG GACCAGGCCT CCAGCTGTNT 240
 GGCCTNGCCN TTCACGCCTT AACACTAAGC CCACCTCCCC TTNTCTCCTT CCCAGCATTG 300
 AGCCCTTGGT TGCCTGGGCC CAGGN 325

SEQ ID NO:2870

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03411

SEQUENCE DESCRIPTION:

GATCTTCAGA AACCTTGCTA GGAGAAGTTA ATGAAAATAG AGTATCAATA GCATTGAAAA 60
 AAACCTCTGA AATCCTTCAC GATATTGACT GTCTTCTATC AAACCTCTAA AAGTGAAAAA 120
 TGGAATTATT ACAACATATT ATTAAGTTT AAGGATGTTG TTTCAAGTGA CTGGTATAAA 180
 ATTACTAGTA AGCCAAGATA TTGTACGTAT TACCCCGGCA CAATGATTGT GAAAGANCTG 240

ACATTTAACT TTGAAGGTAT TTTTAACTTG TACATTTTAA AAATATGTAT TTATATCTNA 300
 NTANTAAATN TTTCGAAGTT TTAATA 325

SEQ ID NO:2871

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03412

SEQUENCE DESCRIPTION:

GATCCAAGCG GAGATTGACG CTGCAGCGGA NACTCATCGA CTTCTTCCGG TTCAATGCCA 60
 AGNATGCGGT GGAGCTGGAG GGGCAGCAGC CCATCAGCGT GCGCCGAGC ACCAACAGCA 120
 CGGTGTACCG GGGTCTGGAG GGCTTCGTGG CGGCCATCTC GCGCNTTAAC TTCACTGCAA 180
 TCGGCGGCAA CCTGGCGGGG GCACCGGCCC TGATGCTTCG AGAGGGAGTT GTGACTCTGC 240
 CTCTTTGCCA GATGACAAAA CTGAGACACA CAGCCGTGAC TTACTTGGCA AGACTGAGTG 300
 ACTAGTAAAT AAATGATGGA GCAGN 325

SEQ ID NO:2872

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03413

SEQUENCE DESCRIPTION:

GATCCTCCTT CTAGCTCATC TGTAATACT AGTAGTAGTC AACCAAAGCC TTTCAGACGA 60
 GTAAGACTTC AGACAACATT GAGACAAGGT GTCCGTGGTC GTCAGTTTAA CAGACAGAGA 120
 GGTGTGAGCC ATGCAATGGG AGGGAGAGGA GGAATAAACA GAGGAAATAT TAATTAANTG 180
 GTCTGTAAAC AATAACAAC GTGAATAAGA TTATCAAATC TTTTGTAGTG TAATGATTGT 240
 CAAGTTTAAA ANCATTTTNN TATATAACCT GGTATACTCA TGTCAATATN CTTTATTAAT 300
 AAAANGNTTT TCAGTGTCTAT AAA 323

SEQ ID NO:2873

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03414

SEQUENCE DESCRIPTION:

GATCTGCCCC TCTCAGCCTC CCAAAGTGCT GGGATTACAG GTATGAGCCA CAACGCCCCAN 60
 CCATCATTTA TCTTTTTCAC TCATTTTTC ATGAGTATGC AGAGGAGTTT TCAAGAGGCT 120
 ATCTGGTGTG ATATTGTAAT AGGCTGAATG CAAAAGCAGA TACAAGATTC CAGCTTTTCGT 180
 CTGTCATCAG ACATTGAAGA GATTTGGAGA AATGTAAAGC AGCAGTACTC TTCTCACTAA 240
 TTTTGTGTGT GGTAGTTAG AAAAATGGTT ATTTNAGTG GGTTTTAATA TGTGAAAAAA 300
 ATAAAATTAG CTATTTGCCA AA 322

SEQ ID NO:2874

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03415

SEQUENCE DESCRIPTION:

GATCACCTNT GCGGTGTTCC TNCCAAAACN GCATAGCCCC AATCTAATAT CATCCCGAGG 60
 AAATACCAGA CACACGCAAG GGAAAGGACA TTCTACAAAG GAACGGACTC ATACTCTTCG 120
 AAAAGTGTCA AGGTCATCTA CGACAAAAGA CTGAAAGGAC CCCAGTCGAA AAAAGNCAAG 180
 ATGACAAANT GCAACGTTTC ATCCTAGACT GGATTCTGGA CCCAAAAAAT CCCCTTCTTT 240
 TGTCAGAAAG GAAATTTGTG GAACAACCTGG CAAAATCTGG AGTTGGGTCT GCAGATTACA 300
 CACTGGTATC GCAGCGAAA 319

SEQ ID NO:2875

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03416

SEQUENCE DESCRIPTION:

GATCTCCCTT CGTGGAGACG ACACCGGGGT CCTCCTGCCC ACCCCAGGGG AGGCCAGGA 60
 TGCTGATTG AAGGATGTAA ATNTNATTC AGCCACCGCC TGACCATCCG CCATTCCGAC 120
 TGCTAAAAGC GAATGTAGTC AGGCCCTTT NATGCTGTGA GACCTCCTGG AACACTGGCA 180
 TCTNTGAGCC TCCAGAAGGG GTTCTGGGCC TAGTTGTCCT CCCTCTGGAG CCCNGTCCTG 240
 TGGTCTGCCT NAGTTTTNCC CTNCTAATAC ATATGGCTGT TTTCCACCTG GNTAATATAA 300
 CCANGAGTTT GGGCCGNAAA 320

SEQ ID NO:2876

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03417

SEQUENCE DESCRIPTION:

GATCTCTGCT GTGNCTCCCA GAGTTACTGC TGCCAGACTG AACTGGAAGG GGAGGATGTA 60
 GGAGCCTGCA CAGCTCACAC CTA CTCTGTG GGTCTGGAG TGGGCATCTN CCTGAGAGTA 120
 CGGGAATGTN AGGTGCTATT TTAAGCTGGC AAAACCAAAG GCTGTTTTNA TTCTCCTCCT 180
 TACCTTGATG ACTATGGGGA GACCGACCAG GGA CTCTGAC AACACAGTGT CACAGNGGAA 240
 TGCAAAGAGC GATTCAAGAA GATTGAGAAG CTCTGGCACC AACACAGTGT CACAGNGGAA 300
 NTTGGNCN 308

SEQ ID NO:2877

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03418

SEQUENCE DESCRIPTION:

GATCTTGACC ATGACAGTTT TNCAC TTTTA ATGAAACGGG GAACCAAGAG GAACTTACTT 60
 GTGTAAC TNA CAATTNCTGC AGAAATCCCC CTTCCTCTAA ATNCCCTTTA CTCCACTGAG 120
 GAGCTAAATC AGAACTGCAC ACTCCNTCCC TGATGATAGA GGAAGTGGAA GTCCCTTTAG 180

GATGGTGATA CTGGGGGACC GGGTAGTGCT GGGGAGAGAT ATTCCTTAT GTTATNCGG 240
 AGAATTTGGA GAAGTGATTG ACCTTTTCAA GNCATTGGGA ACAAATAGA NCACANTATA 300
 NTTTNNCN 308

SEQ ID NO:2878

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03419

SEQUENCE DESCRIPTION:

GATCTAGAAG ACGATTAAGG GAAGGTCGTT CTCAGTGAAA ATCCAAAAAC CAGAAAAAAA 60
 TGTTTATACA ACCCTAAGTC AATAACCTGA CCTTAGAAAA TTGTGAGAGC CAAGTTGACT 120
 TCAGGAACTG AAACATCAGC ACAAAGAAGC AATCATCAA TAATTCTGAN CACAAATTA 180
 ATATTNNNTT TNCTGAATGA GAAACATGAG GGNAATTGTG GAGTTAGCCT CCTGTGGTAA 240
 AGGAATTGAN GAAAATNTAA CACCTTACAC CCTTTTCCAT CTTGACATTA AAAGTNCTGG 300
 CTAAC TN 307

SEQ ID NO:2879

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03420

SEQUENCE DESCRIPTION:

GATCTTGAGG GCAGACAGCA GAATTCCTCT TATAAGAAA ACTNTTNGG AAAATACGTT 60
 GAGGGAGAGA NGACCTTGGG CCAAGATGCT AAATGGGAAT GCAAAGCTTG AGCTGCTCTN 120
 CAAGAGAAAA TAAGCAGGNC AGAGGATTN CTCTGGACAG AGATGGAAGA GCCGGGAACA 180
 GAGAAGTNTG GGAAGAGAT AGGAACCAGC AGGATGGCAG GGGNNNNGG CTCAAGGGTN 240
 AGGAGGCCAG TGGGACCCA CAGAGTTNGG GGAGATAAAG GAACATTGGG TTGCTTTGG 300
 TGGCACN 307

SEQ ID NO:2880

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03421

SEQUENCE DESCRIPTION:

GATCTGCCGT GTCCTTATAA AGTGGATGAA AAATGTTTG TACCCATCTG GAAAACCAAC 60
 AACTTGAAAT CTCAGGTATT CCAGGTCCT GACATGAATT TGAAGATATA TCTATCTGTA 120
 TGGATATATA TCTATATGTA TATAGATATA TAANTACAGA GAGATATCTG GCTTGGTTTT 180
 AATTATGTNC TTAAATTTGT GTGCCAATAA TTGCATATAG ATTTNTTNC TTAAATATTT 240
 GACTGTGGAA CATGCCATTT TAAATATGTN GTAAGGCCTG TNNTAATAAA ACGTTTAGTA 300
 TGAAA 305

SEQ ID NO:2881

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03422

SEQUENCE DESCRIPTION:

GATCCACTGA TGGCTCCAGA CCCCACTTT AGCCATTGCA CGTGTGAAC TCCAGGTTGA 60
GCCTTTGCTG GAGCCGCCTG CAAGGNGCAT GTTTGACCAA TCCCCAGTGG AGGGGAGGGT 120
GGTGTTCCT TTCTGGGACT TCCACAAGTT GAGAACAGAC CATGCTGCC TGGGCAGTTC 180
TTGAAGGCTG TGAGAGTGGG CCTGACAAAG TTTATTCCTT TTTTTTTTC CATTNCCTTT 240
TATNATNATA ATTGTTTGAA ATNGNCAANT AAAAATNATG TATATTTATG ANGTCANCA 300
NGAAA 305

SEQ ID NO:2882

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03423

SEQUENCE DESCRIPTION:

GATCAGGAAA GTCATACTGT TCACTTTCAA GNTGGCTGTC CCCCCGCGG AGCCCCCCA 60
CCCCCATATG TACAGATGAT ANTAGGGTGT GGAATGTCGT CAGTGGCAAA CATTTCACAG 120
ATTTTATTT TGTTCCTGTC TNNANCNTTT TTGNCAGTGT GCTAATAGTT ATATTCAGTA 180
CATGAAAAGN TACTACTGTG TTGAAAGCTT TTAGGAAAT TTTGNCAGTA TTTTGTACA 240
AAACATTTTT TTGAAAAAAT ACTGGTTANT TTATNCTATT TTAATTNGCC AATGTCAATA 300
AAN 303

SEQ ID NO:2883

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03424

SEQUENCE DESCRIPTION:

GATCACCGGA CACAATCCTG CAGAAGGACA CAGGACTCTA TTTCTACAG TGCGAACTT 60
GTCATTCTAG ATGTNCTGTT GCCAGTATCA AAACCGGCTT CCAGGCTGTC ACGGGCAAGC 120
GAGCACAGCT CCGTGCCAAA GCTAACTAAT TTGCTAATCA CTGATTTTNC AAAGCTTGTT 180
GTGGAGATGT GGCTGGACAG GTTTGCCATC AGAGTGGATA TACCGTTGTA TAAAAACAA 240
GATAAAAAAG CTGCCAAGAT TTTTGGCGNG TGGTTGGTCT GAAGTCCTTG CAAGACGCTG 300
NTGCTCAAGC TGTTGACATA CTCATTGGCC TACTTTTAAC ACCTGTCCAG AGGAAACGTG 360
NTATGGGGGT AAGTN 375

SEQ ID NO:2884

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03426

SEQUENCE DESCRIPTION:

GATCAGATAG GAGCACAAGC AGGGGACGGA AAGAGAGAGN CACTCANGCG GCAGCATTCC 60

CTNCCAGCCA CTGAGCTGNC GTGCCAGCAC CATTCTGGT CACGCAAAAC AGAACCCATT 120
 TAGCAGCAGG GAGACGAGAA CACCACACAA GACATTTTTC TACAGTATTT CAGGTGCCTA 180
 CCACACAGGA AACCTTGAAG AAAATCAGTT NCTAGGNNNN GCTGTTACCT CTGTTTACA 240
 GTTTATATAT ATATGATAGA TATGNGNTAT ATATATAAAA GGTACTGTTA ACTACTGTAA 300
 A 301

SEQ ID NO:2885

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03427

SEQUENCE DESCRIPTION:

GATCGGGGGA GGGTAAATAA TGCAAAATT GCACAGTGGA AGAAGGGGTC TCACAAAAG 60
 CAATCCATCC TG TAGTATAG GTANNNGNGT TGGGGGAAGC AGCTTCATT CTGGATGTTT 120
 GGAACCCTTT AGCTTTGTTT TGGAAATGGCC CACCATTCTC ACTGGAAAAC AGTGGTCTGC 180
 TGTGAAAGGC CAGCTCTCGG CAGCCCCTGT GGTTCAGCG CTGCCGCTCT GTGTCATTCA 240
 GGTGTGCAC ATTGTTTTTC TTCTGACTTC CAGAAATAAA AGTGTTCCTCA TGGGAAA 297

SEQ ID NO:2886

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03428

SEQUENCE DESCRIPTION:

GATCTGGGTG CCTTGGGAGA NCCAGTCCTT CCTTTNACC CACCCCAGGA AGATGGAGTN 60
 CTCTTTNCTA GGCCCATGTC CTGCCAGCAA CCGGGATGCG TGGGCAACTG GACTCTGCAC 120
 GGGGGTCTAC AGGTTGAGGG AGGTTGGTCA CAATNAGAAC CTCGGGGTTT GAGGTGGCCA 180
 TGGGCAGACA GCCNNAAGGG AGGGAGGGTG TGGGTGTNCG TGTGTGCATG TCCTGGTNTG 240
 TAAGGGGGAA AGGGTCTTTC CTGGTTTTAT TTAAATAAAG TAGTTTATGT AACAAA 296

SEQ ID NO:2887

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03429

SEQUENCE DESCRIPTION:

GATCTGTGCN GTGGTCCTNA GGCAGTTGTN TCCACACAAG TACTACTTCC TCGTGGGCTA 60
 CAGTNAACT TTGCTGTCCT ACTTTAACAA ATGTCCTGTG CGACTCCACC TCCAAACTGT 120
 GCCCTCAAAG GTTGTGTATA AGTACCTCTA GAACAATCCC CTTTTNCCA TCAAGCTGTA 180
 GCCTGCAGAG AATGGAACG TGGGAAAGGA ATGGTATGTG GGGGAAATGC ATCCCCTCAG 240
 AGGNC TGAGG CATACTCTCT CATCTGCTAT TGANTAAAGA CCTTCTATCT TGTAAA 296

SEQ ID NO:2888

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03430

SEQUENCE DESCRIPTION:

GATCTACTCT GTATGGGTAC CAAAATCACC TTCTCTCTTC AAGTCAAAGT TGAATTTAGA 60
 ACTTTGAATA CAGGTCAAAA AATGTAGAAA ATATCATTTT ATATTCCCTA ATCTATATAG 120
 CTGAAAAAGG GTTGTATTTT CTTAGCTGAA TATGAATACC TCTTAAACAT AAATTAGTTC 180
 CTCTCCAGTG AAGTATCTTA TTTTACCAAT CCATTTCAGG AAAGAGGTTT TGCTGCCGTA 240
 AAGGCAGAAA TTTTATTTT ATCCCTTTTA TTTGAATGAG AGATTTGAAA ATCGAATTAT 300
 GTAAATATTT CAATGCATCT GCTATTATTT TGTGGAGTTT ATTAACTAC TTAAAA 356

SEQ ID NO:2889

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03431

SEQUENCE DESCRIPTION:

GATCCCAAAC CAAATCTTAG AATCANTTCA TTTAAAATAC TGAGCGGTAT TGANTACTTC 60
 GAAGCAGAAC AGGCAATGTG CAGCCCTCAT TTATGAGAAA ACCCTCAGGA AACTCCAGG 120
 GTGATGCTTG GNAGAGCTGT GAGTTGAGCT GAAGCTGGAG AACTTCCTCC AGAGCAAAGG 180
 GCTTAAGAAA GAAAGANGAA CTCTAAGCTG GGTCTGCTAA CATCACTCCA GTTTAGATGG 240
 NTCCTGTTTT TCCTTAACAN GTTGAGGCGT GGGTAGAGCA GGANTTGGTT TTN 293

SEQ ID NO:2890

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03432

SEQUENCE DESCRIPTION:

GATCTGAAAT AACATTAATT TGATTGTAAC CCTATTGGGG TTAGTTCCCA CCCTTTGTTC 60
 CATCTTGAGC AGAGATGNCC TGCATTCTT AACGTTTGGT CTCTATACAT TATACCATCT 120
 GCTGAAGTTT AGCTTTGTGT GTGTGTATAT GTACCCATGT GTGCACTTTA AATATCAGTA 180
 CAAACTGATA AACAATGTTT CTGGTTAATG TTGCAAAAAT GGAACACTGT ATTNACATA 240
 ATTGATTTTC TACTCCTGCC CTGTGAATTA AGGCAGAGTT TTA CTGTAN 289

SEQ ID NO:2891

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03433

SEQUENCE DESCRIPTION:

GATCTTCCCA CACCAGCCTC CAAAATACT GGGATTACAG GCTTGAGCCT CCATGCCTGG 60
 CCCAGGTAAC ATGTTTATTG AGCTGTACAT GCATATGAGA AATAAGAAAC TTTTTTTTCC 120
 TACTATCATC TCTTAAATNT NGTNTTCTTT TTCTTTTGCT TCCTCTTCTT CTNTNCTATT 180
 TNTNATAAT ATCATGCACA ACTATAACCT ATGGGAATNA TGTAGTAACA CAGATTATTC 240
 ATCTTGTTAG AGTTGTATTA AAAATAAACA AGCATTTCAA ATAAAA 286

SEQ ID NO:2892

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03434

SEQUENCE DESCRIPTION:

GATCCAAGAC CAGGGTGGTT GGGGGCTGCC CCTGGCCGAG TCACTGAAGC GACTNATGTC 60
 CCTGTNTCCA GGACGANCTC CTCTCCTACT TTGGGACGCC CACGTGGCAG ACCGTGACCA 120
 TCTTTGTGGC GGNAGTGCTC ACCGCCCTCAC TCACCATCTG GAAGAAGATG GGCTGAGGCC 180
 CCCAGCTGCC TTGGACTGTG TTTTTCCTCG GGTAANNNGN GGCATTNTTC TGGGAGGGGT 240
 GGGGATTGGG GGACATGGGC ATTTTCTTA CTTTGTAAAT TATTGN 286

SEQ ID NO:2893

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03435

SEQUENCE DESCRIPTION:

GATCTGCNGG GGCNTGTNCA GCTGCAGCAT TCCTGAAAGA TTTCGTAAC CATCCTAAGT 60
 GGGCACATTT AGACATAGCA GCGTGATGA CCAACAAAGA TGAAGTCCC TATCTACGGA 120
 AAGGCATGAC TGGGAGGCC ACAAGGNCTC TCATTGAGTT CTTACTTCGT TTCAGTCAAG 180
 ACAATGCTTA GTTCAGATAC TCAAAAATGT CTTCACTCTG TCTTAAATTG GACAGTTGAA 240
 CTTAAAAGGT TTTTGAATAA ATGGATGAAA ATCTTTTAAC GGAAG 285

SEQ ID NO:2894

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03436

SEQUENCE DESCRIPTION:

GATCAGCTCT TTCTATTTTT ACTCGTAAAA ATTATGGAAA TAAATAATTT TGCTAACAAC 60
 TTTGAAATTT CAAACTTCTG GAAAAATGA AAATATTCAT TGTTCATTAT GAATTTAAAT 120
 TGTAAGGTAT GAATGTNATT TGTCTGTACA TCTTGTATCT TTTCCAAAAA ATGATTCTGT 180
 ATCTTTTGGA AAAAAGCCGA GAGTTGAAGA TAGTATATTT CTGGTAGTAC TGAATATTTA 240
 CTTACAGTTT CTATCAAAAA TATATATTTG TTTCTAAAAA TAAA 284

SEQ ID NO:2895

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03437

SEQUENCE DESCRIPTION:

GATCTCCTTG TTAGTGGTGG TAGGGAGCTA GACAAGGATG GCAACTATTT CTGTATCTTA 60
 CATACCTTN ATTTNGAGGC CCTGTCAATG TTTTATATAA TANNCATTTT TTGAAAAGGC 120

AACTCTTAAA ACTAAACAA ACTTAACAGT CTGTCAAGTT GGTGATATAA CCCCACAGAA 180
 GACTTACTTC AAGTGACTTG AAAACTTAGT ATTTTGTCTG TNCTTTGCTA ATGGGNATAN 240
 ATCCTACAGA CCAAACANCC NCAGNTAANT CTTAANCTGC AAA 283

SEQ ID NO:2896

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03438

SEQUENCE DESCRIPTION:

GATCCCGGGA GACCTGGGGC TGCCGAAGAA GCTCTGCTCC AAATGGAGAG TGTAGCCTGA 60
 GGGCTGGTGT TGCCTGCCTC CCCTGTNCTT GTNCCTTGTC CCAAATAAA TCCTTTCAGA 120
 ATGTAGCACT CACGNCCTAA TAAGGAGCGA ATCCTACATC CACCAAGGCG GGCCTCTGG 180
 CCTCCCTTC CTTAAGCCCA GTCCTGTGTC CTCTGAAAGA GGTTCAGTC ACTCACACCN 240
 GCTTGCCTC ACCATCAATA AAAGTAATTT CACCNGAAA 279

SEQ ID NO:2897

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03439

SEQUENCE DESCRIPTION:

GATCCCCCTCC CCCAAGATAC TCTTTGTGGG GAAGAGGGGC TGGGGCATGG CAGNCTGGGT 60
 GACCGACTAC CCCAGTCCCA GGAAGGTGG GGCCCTNCCC CTAGGATGCT GCAGCAGAGT 120
 GAGCAAGGGG GCCCGAATCG ACCATAAAGG GTGTAGGGGC CACNNNNCTC CCCCTGTNCT 180
 GTTGGGGAGG GGTAGCCATG ATTTGTCCCA GCCTGGGGCT CCCTCTCTGG TTTCCTATTT 240
 GCAGTTACTT GAATAAAAAA AATATCCTTT TCTGGAAA 278

SEQ ID NO:2898

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03440

SEQUENCE DESCRIPTION:

GATCTGCTTA CCAAGCATAT TAGGAAATAC CTCTTAGGAA GCATTAGCGG TCTCAGGCCA 60
 ATTACTGTGG AGCAGCTTTC ATTCCTACCC ACTTGCAAAC CTTGGCGCTG TTGTCTGAGA 120
 TTGCTGCAGC CATTCTTGTT ACCATGGTAC TTCTCAAAC TGTGAAAAC CTGCACTTTT 180
 CCTTGCATGA CAGGTTCTTG TCTTGTCTGT CATGGGAGCC ATTCTGCCAA TTAAATGCG 240
 ACTGTGGTAT AAACAGTAAA ATGATTTAAA AGTAAA 276

SEQ ID NO:2899

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03441

SEQUENCE DESCRIPTION:

GATCAGTGTT ATATTTTACT GGAGAAGCTA TTGAAGATGA TGATGATGAT TATAATGAAG 60
 AAGGTGAAGA AGCGGATGAG GTAATGTTTA CCAAATAAGC AAATAATTCT NTGTGGTTAA 120
 CACATTGAGA AGCAAATGA ATNACTTATG TATTCCTTTG CTATAATCAT TCTGTGATTT 180
 GGGATAAAAA CATTTTGGAA AACATGATTT TAGAATTCTA CAGCCAAACA ATGTATGTAT 240
 AAGGTTTCAA TAAATAANTT GCAAACTCA GAAA 274

SEQ ID NO:2900

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03442

SEQUENCE DESCRIPTION:

GATCCCCACC TGCCATCCTA TAGTGTGTG TTCCTGTGTG TTCCGGGGCT TCTGGGCAGC 60
 TGGGCCTGCC CGGGGAAGTC CTTGCAGGTG GGAGGCCATA CAGAGACCCA CTGTGTGCCA 120
 CTGAGCGTCC CACTGCTGCT GGGCAACTGG AGGACTGCAG GGGGCGCCAG GTGACTCTCT 180
 CCTTTTATAT CACAGCAGCT CCTGTGCTGA CCTTCAAGTT ACGTTTGGGA ACTGTAATAC 240
 TAAAGGAAGA AATAAACTAC TAATTTGTAT AAA 273

SEQ ID NO:2901

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03443

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTCACA AAAGTGCCAC 60
 TAAAACAGCC TNCGGAGAAT NNNTGACTTG CTTTCTAAA TCTNAGGTTT ATCTGGGCTC 120
 TATCATATAG ACAGGCTTCT NATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
 AATCCTGGTC TTTCTTGGTA AACAGNTTTT AAATGTCTGA TATAAACAT GCCACAGGCG 240
 AATTCGGGGA TTTNAGTTTC TCTGAATAGC ATATATNTGA TGCATCGGAT AGGTCATTAT 300
 GATTTTNNNC CATTTCGGCT TCATAATGNA AACCAGTTCA TTTTACCTAT CAGGTTATN 359

SEQ ID NO:2902

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03444

SEQUENCE DESCRIPTION:

GATCAGAGCA CAGTTGAAAT TCATGGAAGT GGCATTATTT AAGCAACCAG AATTCCACAC 60
 TGTAGGAAGG TTTTGGAAAT TGTTTCGTTA TAGATTTTAT CTTATCTTTT GGTGTTGTCT 120
 TGGTTTTTCT CATAGACTTT ATAAGTTTGA ACTGGACTTA TTTGATTATA ACCACAAATT 180
 GTGTGTGTGT GTGTGTGTGT ATATATAGAA GTCATTATGG CAGATGCACA AATTGTGCAG 240
 TGATGTAAAT ATACATACTT CACAGAAA 268

SEQ ID NO:2903

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03445

SEQUENCE DESCRIPTION:

GATCGGTAGT GTTGTGTGTA GGCCATTCTT CTGGAGAGCC ACAAGCAGGA AGAGCAGCGC 60
TGTGTTGCAG AATGGAGTTC CATGGATTTC TACCAGACCA CTGAAGGAGT TCCTNGAAGC 120
CCTGCGGTAG CTAGCACTGA AGACTATTTT NCTATTGGTA TAACCNGCCC ACCTGAAGGG 180
GAAAGGGGAA ATCAANTTAA TTTTCTCGTT AGACATANGG AAATTTAAGG AAAAACAGNT 240
TTAGGANCAG TTA CTCAGCG TAGN 264

SEQ ID NO:2904

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03446

SEQUENCE DESCRIPTION:

GATCCATAGT GAAATTGCCA GAGTTTTGCC TGCTGCTTTC CTCGTGGCCT CTTCTTGGGT 60
AGTGAAATNA AGTGACATTT GGATTTTAAT TTGGGTGGGA GGGCTGGGAC AGTTTTNTT 120
CTAGAAATGT CTGTTGAGAT TTCCCCTTT AGTTTCCAAC CTTCTCCCA ACCCTTGGAG 180
CTAAATGCGT TGTAATAATAT TGCCAAAATG AAAAGTGTTC TGTAATACTG CAATAAAGGC 240
TGCTTGTTC TGTGAAA 258

SEQ ID NO:2905

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03447

SEQUENCE DESCRIPTION:

GATCGGACAT GAAAGNACCC TNGAGTCGA TTGTCCTANC TCCAGCGGCC CTGTCATCCA 60
GCTCACTCAT CAATGGGGCC AGTCAGGCC AGGCACTGGG CTCGGGAGGA CTCACCACTG 120
CCCCCTGCTG CCATGTGGAC TGGTGCAAGT TGAGGACTTC TTGCTGGTCT AGTCACGCAT 180
GCAGTGTGG GGGATGCCTT GGTTCCTACT GCTCTGAGAA TTGGTTGAGA TACTTTTACT 240
AATNAACTG TGTAGGTTGG GAAA 264

SEQ ID NO:2906

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03448

SEQUENCE DESCRIPTION:

GATCTGCTTT CAACACTTTT AGCTCTTCTA GAATTCAGA AAAATGGTAT CGGATGTACA 60
GCATGGACCC TTCTNTGGTG GGCTTCTTTA CTGTAATGCT TTTAANATTC ATCTGTGCTG 120
TTNAGTGTCT CTGCAGTCCA TTCCTTCTGT TGAGTGATC AGTAGTCCAT TCCTTTTCAT 180
GGCTGAGTAG TATTCATTG TATAATTATA CCACTATTTG TNCATTTACT AGATAATANN 240

CAGTTGGCTT GTTAAA

257

SEQ ID NO:2907

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03449

SEQUENCE DESCRIPTION:

GATCCATCCG CCTTGGCCTC CCAAAGTGCT GAGATGACAG GCATGAGCCA CTGCACCCGG 60
 CCATATAATC AAATTTTAT TGATTTTAGA GCAAAGGACT TTTCAATGT AACTGCTTAG 120
 AAATCGAGCA ATTTTCTATT GTATAGAGTG AAAGTCAAAC TTGTTTATTG TACAAGTCTT 180
 TAAAGGGATA GTTAGGAGTA AGTTGTATTT GCTGAATATA TAGACCTCAT TTGTAGCCAT 240
 TAGTGATTCT GTATTN 256

SEQ ID NO:2908

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03450

SEQUENCE DESCRIPTION:

GATCTAATTA AAAAAAGGC AATATTTTAT TATTAAAGTA CTATACTAGG AGAGAATGTT 60
 TCANAATCC CTGATGAATT TCTAAGTGAG CAACTTGATA TAAAATTGTA ATCTTCATTT 120
 TTGTCAGTGT ATCCAGTTAC AGAATGCTAC ACACTTACCT TTTTATTGGC TGAGAAATCT 180
 GGTATTTTCA TCTTAATCTC AAGATTGTTT TCAAGTGTTT TATAATTAAA TCATAATAGC 240
 ATATTTTAAA ATCAAA 256

SEQ ID NO:2909

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03451

SEQUENCE DESCRIPTION:

GATCAAACCA GCTCTTNTNA CCCAAACCAN TGCCGCTGCA TTAAAGGGAG GCCCAGCTAC 60
 TCCTTCCCAG CTGAGATGTG GGTACAGGTC AGATTTNTCA GGGAGATGGC ACTAACACGA 120
 CACAAGCTCA CTCCCAGAAC CGCAGCTGAT GTTTATAATA ATCGTATGTA CTGTGCAATT 180
 TAGGAGGGGA AAAAAAGGCT GTACAAGCTT TAACTCTAAA NNAATNTCT ATTTTNTNCC 240
 TCTTGCAAAN TAAA 255

SEQ ID NO:2910

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03452

SEQUENCE DESCRIPTION:

GATCTGCCCT GTACAGCCAT GTAGGCTGTG CGCTGCATAA CTCCAGGGAC ATGAGTCACA 60

CAGACACAAT GTGAGTGTGC TCCCCCGTCA TGCAACATCT GGACACAACT AACAGAGCAT 120
 GGTGAATACA TGCTGAATTG CATTCACTAT GGCTGTGAAC TAGGCCTGGG GACAAGANTG 180
 ANTTTACAT GGAAAGAATT TCCTGTAGCA GGAACAGAGG GGATAACAAC AGCAGTAAAT 240
 AATAATAAGN CAAA 254

SEQ ID NO:2911

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03453

SEQUENCE DESCRIPTION:

GATCCCCAC TAGTNCCCTC CCTCTNCCCC TGTAATCCTG GTCTAATAAC CCCCCACACA 60
 TACACCTCTG GTGACCTATT TGCACAGACC GTNGTCTTCC CTCCAGTNTT CTNAGGGATA 120
 GGGGACATTC CATCCAAGC TTCTNCCTTA CCCACACCTA TCCTTTTNG GGGCTTTGGG 180
 GTGGGGCTGG GGCAAGCAGA GGGACTGGGT CTTCACTTCT NGGGCTAATA AAATTGTTTC 240
 TTTGTGGACT AAA 253

SEQ ID NO:2912

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03454

SEQUENCE DESCRIPTION:

GATCAAACCG GTTCTNTCCT TTCTTGTTT GCCATGTTAC TATGCCTCAA GCCCAGTTN 60
 CTTTNNCCG AGCGATGGGG CCAGTCTCAT TCCTCCCCAG GAGTGAACT NGCTTCANCT 120
 GAAAAGGTTG GGTGCATTGT CAGTAAAAAG GGCTTATTG TTTCATTNA CTTTCTGCA 180
 AAATTTTCTT CAAAGCAACA AGTCCTAGGN GCACACAAAG CAACCCAAAG GCTTTCCCT 240
 GGAAAAGCTC TTN 253

SEQ ID NO:2913

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03455

SEQUENCE DESCRIPTION:

GATCCGGGGC ATGCAGAAGC TGAGCACACC CCAGAAGAAG TNAGGGTCCC CGACCCAGGA 60
 GAACGGTGGC TCCCACAGGA CAATCGCTGC CCCCCAACCT CGTAGCAACA GCAATACCGG 120
 GGGACCCTGG CGGCCAGGCC TGGTGCCATG AGCAGGGGCTC CTCGTGCCCC TGGCCCAGGG 180
 GTCTCTTCCC CTGCCCCNTC AGTTTNCAC TTTTGGGGT TTTTATTGNT ATTAACTGA 240
 TGGGNCCTTN TAA 254

SEQ ID NO:2914

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03456

SEQUENCE DESCRIPTION:

GATCCTTGTT TTGTTGTCAT GGAAACTTCG GGGCTGGTGG GACTTAGGCC AAAAGCTCAG 60
AGGCACAGCC AAAATTTAGA AGCTTGCTAC TCCTACGACT CGGCCTATAA GGAAGAGAGA 120
AGCTGTCTGT ACTTTGGGGA CTACATTGCT GAAGGAAAAA AATCACTCCC TGGCTAATTA 180
AGATTGCTTC CAAATTGGGG GAATGTGTGT CATTCCTTT ACCAAGGCCA GTCATCCCTG 240
CTTCCACCN 249

SEQ ID NO:2915

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03457

SEQUENCE DESCRIPTION:

GATCCAGGCC GGGCCTATAC AGAGGTGCTG GCTGCTTGTT TACATTCTCC TCTGGGGCTC 60
TACCTCTCCA CACTTCCCCA GAAGGGAAAA GGGCACCCCTG GATTACTNNN TTGGAATNA 120
CTCCTTGGTG GGCAGCATCC TGAGGGTTCC CCAGAACCAG GCCTCTGCTC TGGCCCTCTT 180
GCATCTGGAA CGCCAGGTGG GTTTTNTGG CATAGGAGCC CACTTGCATT TTCATAGTTT 240
TATTGATN 249

SEQ ID NO:2916

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03458

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGAGAGAA TCATGCTGTT 60
GCATTAGAA CTTNCTNCTT TGCACAGGAA AGAGTCACAC AATTAATCAA CATGTATATN 120
TCCNCTATAC ATAGAGCTCT ATTNCNTNC GGTTTTATAA AAGCCTTGGG TTCCAACCAG 180
GCAGTAGATG TNCTTCTGAN CCGCAAGGNG CAAACACTGA AATAAAATAG TTTATTTTNC 240
ACACTCAA 249

SEQ ID NO:2917

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03459

SEQUENCE DESCRIPTION:

GATCTCCTTT TGTGAAACC AGTTTGATGT GCTAAAAGTA AAAAGTCTAN TTTCCAGTGT 60
GGTCTTGTT AGAAGCAGCC AGATTTCCAA TGTGTTTTT CCCCTCCACT CAGAAACCCC 120
TGCCCTTTCC CTTCAAAAA CGATGGCAGG CATTCTCTG AGTTTACAAG CAGAGACTCA 180
CTCCAACCCA AACTAGCTGG GAGTTCAGAA CCCATGGTTG GAATAAAGAA ATTGTGCGTC 240
TTGGTCAA 249

SEQ ID NO:2918

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03460

SEQUENCE DESCRIPTION:

GATCTATCCC TCGGGNCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTCCTGCC ACATGGAGNC CCCTCTGCCG GTCGGGCAGC CAGCAGAGGG GGAGTAGCCA 180
AGCTNCTTAA TCCTNAGCCT NCCCCTGTGT ATTCACCACC AATAAATCAG ACCATGAAAA 240
CCAAA 245

SEQ ID NO:2919

LENGTH:384

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03461

SEQUENCE DESCRIPTION:

GATCAGGAAA CCAGAAATAC CACATTTATG GACCATGAAN GGTGTTTCT TGA CTCTGAA 60
GGGACTTTTG AGTTAATCAG CGTAAGGGGA TTTCTAAAGC AGGCAATCCC TGTAGCCGCA 120
GAGAATAAAC GCCTTCCCAA AATGGNACT NCCCACAGCC ACATTTTCTGAGTA 180
CTGCTGAGTG AGGAATGGCA GTGAGGTTTC TTCAATNAGT CTCAGTTCTC TTAATTTTCA 240
GGAAGAAAGG GTAATTGCAG CCCCTCAGCC CCCAGGATTG ACCTCTNGGG AGNCATGGTA 300
GCGTTGTGTG CCAGGCCGTN GGTTCAGGTG TTNGCAGAAG CTTTCAGATT CGTCCGAAGG 360
GAAATAAAGT GTGTTGGCGT TAAA 384

SEQ ID NO:2920

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03462

SEQUENCE DESCRIPTION:

GATCCCAGCA GCCCTCCCTT CACCGTGACC CCTGACCTTT GTTAGGAAGG TGCAGTTTTT 60
NTTCTCAATC TAAATNCCTT TNAGGTGGGC CGCTTCCTTG GCTACCTGGT TCCAGGGGGC 120
TGTTTTGTAA TNAGATGCTG CTGGCAGGCC ACTCAGAGGC TCCCAGCTGG GTTGGTGGGA 180
CAGCCAGGCC AGATGACCTG ATTCCAGCAA AAATAAACT CAGATTTGGG CAAAATGAAA 240

SEQ ID NO:2921

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03463

SEQUENCE DESCRIPTION:

GATCCCTAGC AGCTCATCCT GCCCTTTGAA TACCCTCACT TTCCAGGCCT GGCTCAGAAT 60
CTAACCTATT TATTGACTGT CCTGAGGGCC TTGAAAACAG GCCGAACCTG GAGGGCCTGG 120
ATTTNTTTTT GGGCTGGAAT GCTGCCCTGA GGGTGGGGCT GGCTCTTACT CAGGAAACTG 180

CTGTGCCCAA CCCATGGACA GGCCAGCTG GGGCCACAT GGTGACACAG ACTCACTN 238

SEQ ID NO:2922

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03464

SEQUENCE DESCRIPTION:

GATCACC GGT TTCCGACTGA GTCTGGGGAT TTTGGCCTTG TTGACCCTCC TAGGTGCCCT 60
GGGAATTGCA AACAGCTTTC TGGATGAATA TCTGGACCTC AATATTGCCA AGAACTGAG 120
GCGGCAATTC TAACTTTTTC TCTTCCCTTT AATGCTTGCA GAAGCTGTTT CCACCATGAA 180
GGTAATATGG TATCAATTTGT TAAATAAAAA TAAAGTCTTT ATTCTGTTTT TCTTGAAA 238

SEQ ID NO:2923

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03465

SEQUENCE DESCRIPTION:

GATCTACTGT GTGGTGTCTG GGCAGATGAA AGTACACTGC TTAGNGTGAT GCTTAGCATG 60
GGGCAGATGC TTGGTAAATT GTAATCACTT TTGTTGTCAG TTAAATGGAT ATTCACTGT 120
TGCCTCTNAA ACGCTTACGG TAATATATAC TAATTATACA TGTATTATC AGTTTATATT 180
TATTGAACAT TTCGGGGAAG TAATTATAAA ATAATCTTGT CTACTGTCTT ACCCCAAA 238

SEQ ID NO:2924

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03466

SEQUENCE DESCRIPTION:

GATCTATGGT GCAGACTGCC TTCGTCGGGT GCAGACTGAG CGACCGNAGC CCCAGACACT 60
ACAGCTGGAT TNCTTGATGA AAATCTTGCC AAATTACCAC CACCTAAAGA AGACTATGNA 120
AGGAAGCTCA ACTCCAGTAA AGAACTAAGA ACAGTGATA ACATGAAGAT AACATTTTGT 180
CTTTGACCAC TGTCTTTTGA ATGGGCCAC AGTGTTTATG TACTCTTAAC AACTCACAGA 240
ATAATACATG TTCACCTTAT TTTGTAAAT TGGGTTGAGA GGAACTAAT GGAGTTTCAT 300
TGTAAGTGC CTTTNTAATT TATATAAATG TATTATTNTC CTATAAA 347

SEQ ID NO:2925

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03467

SEQUENCE DESCRIPTION:

GATCCTGTGA TATGGTTTTN GGCCAGCAA ATCTAGGAGA AGATGCAATT AAAAATTCA 60
GAGCAAAACA TACTGTAAAT TTTGCTGTA GAAAGCTTAA ACTTCCAGGT AAAAAATTTT 120

TTAATCAGTA TAGTATATAA TTNGTTACGA AACTNGGTGA CTACAATACC TCATAAGGCC 180
 AGAGGTACAA NTGTTTAATG TAATGGTCTC TAATTGTGCC AGCTTCAGCA GCTCTN 236

SEQ ID NO:2926

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03468

SEQUENCE DESCRIPTION:

GATCCCGCAT GCCTGAATTC ACTAAAGCCA AGGGTCTNTA AGCCACGCTN NNTCTTCTGA 60
 GACTTCCATT CCTTTCTGAT TGGCACACGT GCAGCTCATG ACAATCTGTA GGATAACAAT 120
 CAGTGTGGAT TTCCACTCTT TTCAGTCCTT CATGTTAAAG ATTTAGACAC CACATACAAC 180
 TGGTAAAGGA CGTTTTCTTG AGAGTTTAA CTATATGTAA ACATTGTATA ATGATATGGA 240
 ATAAAATGCA CATTGTAGGA CATTTTCTAA A 271

SEQ ID NO:2927

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03469

SEQUENCE DESCRIPTION:

GATCTAAAA GTTTATTCCT TCTGTAGTGT ATTAATCTCT GTGTGTTTTT TTTGGTTTTG 60
 GAGGAGGGGT ATGAAGTATC TTTGACATGG TGCCTTAGGA ATGACTTGGG TTTAACAAGC 120
 TGCTACTGG ACAATCTTAT GTTTCCAAGA GAACTAAAGC TGGAGAGACC TGACCCTTCT 180
 CTCATTCTA AATTAATGGT AAAATAAAAT GCCTCAGCTA TGTAGCAAAG GGAAA 235

SEQ ID NO:2928

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03470

SEQUENCE DESCRIPTION:

GATCCATCTN CCCTCATAAA AGTGTTCAAG TACAGCAGCT GAGGCTGCCC TGAGGAATCA 60
 NGGGGCCATT ACCAAGGGGC AGGTAAAGGG TATNTAAGAG GTGGCCTTCA TGGTAGAGCT 120
 TGACCCAAGA NCTACTCCAC ATTGCGNTNG CCCAGACTGA CTCCATCCCC TGANTTTCCC 180
 TTNGACTTCA CCCTGTTTGT AAATAAAACA NTAAATGGA AGGTGCTNTG GAAA 234

SEQ ID NO:2929

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03471

SEQUENCE DESCRIPTION:

GATCTCAAA CTGGAACCC CGATTTCAAT CTACGTTCTA GTCAGTGGCC TCAAAGGACC 60
 CCACAGCACC TGGGCCAGAC CAACAGCTCG AGGGAGAACC TGAAGGCCCA GGGGGTCCAG 120

GGCGGACCTG GGGCCCCGAC CACCAAGGAC AGCTCAGCAG TGGCCCTTNA CTGCATGTCC 180
 CCAAACCTNAG CATGACTCCT GTCCTCTTCA ATAAAGACGT TTCTATGGCC AAA 233

SEQ ID NO:2930

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03472

SEQUENCE DESCRIPTION:

GATCAGCAGA AAGCACAAAC ACAACTGCTT CTGTATTCAG GAGGTGTGA GTGGGCTGCG 60
 GCANCCGTTG GTGCCCTGCA TAGTGGGGAT GGCTCGCAAC GTCTCTTCAT TCTGGAAAAA 120
 GAAGGTTATG TGAAGATACT TACCCCTGAA GGAGAAATTT TCAAGGAGCC TTATTGGAC 180
 ATTCACAAAC TTGTTCAAAG TGGAATAAAG GTTGGCTTTT TAAATTTTAA A 231

SEQ ID NO:2931

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03473

SEQUENCE DESCRIPTION:

GATCAGCAAA AATAAAGGGG CTACAGAAAC ACTCATTTTT ATGCTGTTCC CTCTGGGGCT 60
 TCATGCAAGG ACAATTCTNT GTAAATNTAC AGTTGACTCT GATTGGAAA TATGAAAATC 120
 AGTCCATCCT TGTTATAAAA AATTTTTTTA CAATTGTAAT TATATTGATG TTCATATTGT 180
 GTAAATAAC TCATTTAATA AAATAGTACT TTGATTTACG ACATCAATAA A 231

SEQ ID NO:2932

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03474

SEQUENCE DESCRIPTION:

GATCCCACCC CCAGCCATTT GCATTGCTGG CCCAGCGCCT GGCCTGGGGG GCGGGGAGAG 60
 GCAGCAGAAG GGGCTGGGCA GGGGCGGTGG AGGACTCAGG AACTNCCCGG GGAGAGTGGG 120
 TATGGCGGCT GAGCCAGGGN CCCTCCTGTN TTNACTTCC CGGGATGGGT CTTGCTTNN 180
 AAGCTGTNTC CGACCCACCC ATNTAATAAA ACCCAAAGGA ACAGCCCAAA 230

SEQ ID NO:2933

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03476

SEQUENCE DESCRIPTION:

GATCAGCCGG AAACCCCTGG CAGCCAAGAA CAGATAAGGA AGGGATTGGC ATCGGCTGGC 60
 CTTCCAGCAC CTTCTCTCTC CAACACTTCA TTCTCTCTTG CCCTGTNTCT CAAATAAACC 120
 CAATGCTGCG TGTGAGGCCT TTTTATTTT TCTTTTCACT CTCTTTCTAA TGCTTCCAC 180

CTTACCTTTT AGATTCTTTT GCTAGGTGGG AGATTGTTAT AAGGTCTTTA AACCATTTC 240
 ATTTGTTTCT TTAACATTAC CAAAAGCAGG GNACAAAGCT CTTATTCAAC TCGNATTCC 300
 ATAGNGGGCT CTGGNTTNTT CTGAATN 328

SEQ ID NO:2934

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03477

SEQUENCE DESCRIPTION:

GATCTTGCCC GGTGTCCTGG TCCTCTTGCT TCCGTCGCGG CCGCATGTGC GTGTGTCAA 60
 GCAGGTCTCG GCGCCTCAA CTGCTGCCCC TGGTTGAATG TTCTCTTGAT AGTGCTGGAC 120
 CCTTTGTCTA TTTNAAAGCG AATTTTGTGT GATTCCTGC CCTTTGCGTT ATATTGTATA 180
 ATACCAACGT AAGGAAATAA ACCTTTGGAA TTGTTGAAA 220

SEQ ID NO:2935

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03478

SEQUENCE DESCRIPTION:

GATCCGAGGG CGATGGGACA GTGCACCGCA GATAGAAGAG GAGGACGTGC AGCATGGTGG 60
 GAAACGGGGA CACCACCTCC CAGGACGACT GTTCAGCAA AGAGCGCANT GCTCCAGGTG 120
 ACCCAGCAAG GCTGTTGTNT GTATGGAAGG ACACGCTCGC GGCAAGGGCA GGGCCTGGGN 180
 AGGGTGGCCT GTCCAGTCCT NNAGACAAGG GGAGGCCTN 219

SEQ ID NO:2936

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03479

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGGAGT TCGAGACCAG TCTGGCCAAC ATGGTGAGAC CCCATCTCTA 60
 CTAAACTAC AAAATTAACC AGGTGTGGTG ATGCATGCCT TTNACTCGGG AGGCTGAAGC 120
 AGAAGAATCG CTAAACTCG GGAGGCGGAG GTTGCACTGA GTCCAGATTG TGCCATTGCA 180
 TTCCAGCCTG GACAAGAGGA GCAACACTCT GTCTCAA 218

SEQ ID NO:2937

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03480

SEQUENCE DESCRIPTION:

GATCATGCCT GCGTGACAAA GCCTCCAGAA AAATCCTTGA AAGACAGGAC ATGGAGAGCT 60
 GCTGGGTTGG CGAACACATC CATGTGCCGG GAGGATGGTG CACCCCAACT CCACAAGGAC 120

CCTTCCAGAC CTCACCCTGT GTATNTCTTC ATCNNNTGT TCATTTGTAT CCTTTAAAAT 180
ATCCCCTGTA ATAAATCAGC AATAGTAAGT AACTAAA 218

SEQ ID NO:2938

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03481

SEQUENCE DESCRIPTION:

GATCTAAACA GTGAATAGTA CATGCAAAGG CATAGTCTAG AGGATAAAAG TGAAAATAAT 60
TAGTAGCAAA ATNAATGCCT TGTGGATGAG GTTTAGGGGC CAATAACTAT CTTGAGGTAA 120
GGCCAGGTTG TGGCTGCCTT TGTGTTGTAC TAAGGGGTTT GGACCTTCCT AGGAGATTAG 180
AGCTTNATTA AAGTCACAAC ATCCATAAGN GAAATAAA 218

SEQ ID NO:2939

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03482

SEQUENCE DESCRIPTION:

GATCCCTTTG CTGTGAGGGT AGAAAACCTC ACCAACTGCA CCAGTGAGGA AGAAGACTGC 60
GTGGATTCAT GGGGAGCCTC ACAGCAGCCA CGCAGCAGGC TCTGGGTGGG GCTGCCGTTA 120
AGGACGTTCT TTCCTTACTG GTGCTGATAA CAACAGGGAA CCGTGCACTG TGCATTTTAA 180
GACCTGGCCT GGAATAAATA CGTTTGTCT TTCCCAA 218

SEQ ID NO:2940

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03483

SEQUENCE DESCRIPTION:

GATCTTAGAT TTGATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
AAAAGCAAGA AGTATTTTTT TTTTGAATG NCTGAAAGCT GTTCTGTGGA TGACCTACCG 120
NTTCCTTTAA ACACGATTCT CTCATTCCA ACTCCAACT TGCTCAACTA ATCCTTAAAA 180
ATAAACTTGA GCTGGAATTT GAGGCTTGCC TGGAAA 216

SEQ ID NO:2941

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03484

SEQUENCE DESCRIPTION:

GATCTCGGGG GTGTGGGGCC CTGTGCCTTC CTGAAGTGCT GGCAGCCCAG TGGCACCTCC 60
TTCAGGCCTT TGGGGTATTC CCCTAGTG TG CCAAGTNAG CCTCATATTC TGGGCGGACA 120
GCTTGTCTGG ACTTCGGAGT TGGGGGTGGT CAGACACCAC AGGAGCTGTC ACCTCCTGCG 180

GATGGGCAAA TAAATTNGTG GAGGACNCCG AAA

213

SEQ ID NO:2942

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03485

SEQUENCE DESCRIPTION:

GATCCTCTCC CCTAGTATNT TCAGCACATG CTCACTGTTC TCCCCATCCT TGTCTTCCC 60
 ATGTTCAATTA ATTCATATTG CCCCAGCCT AGTCCCATTT TCACTTCCTT TGACGCTCCT 120
 AGTAGTTTGG TTAAGTCTTA CCCTGTAATT TTNGCTTTTA ATTTTGATAC CTCTTTATGA 180
 CTTAAACAATA AAAAGGATGT ATGGTTTNA AA 212

SEQ ID NO:2943

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03486

SEQUENCE DESCRIPTION:

GATCTTTTCA GAGTGGTGTT TCTAAAAGAG CATGTACAAA AGTGGCCTGT GGACATTTAG 60
 GCCTAAAGTG ATGCATTTNC TCTTCCTNTT TGTGCCAATG TATCAATGTA GAGTTGCTCT 120
 GTTTTCTNCA ACTGTATNNA TTGCTGCATT TCTCAGCATA AACTTATCCC ATTGTATTTT 180
 TNATAAATAA ATATTTTTTT TGAACTTTCA AA 212

SEQ ID NO:2944

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03487

SEQUENCE DESCRIPTION:

GATCAAGGAT GAGGATTAGC ATCTGCAAAT TGAACCTCTAT CTAATTTNCA TTTTTATTTT 60
 TTAGAATTGT AATTAAATTT GTGTAATAAA TGTNTTCCAT TTCATTTGTA CACTTAAAC 120
 TTGGGTGACT GAAATGCAGT TAAGTGAATT NCCTTTTNTT AAAAGCAAAT GTAGATTATN 180
 CAATAAAGCA GCAAACCAAT ATTAANCATA AA 212

SEQ ID NO:2945

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03488

SEQUENCE DESCRIPTION:

GATCTATGTA AAAGAATACA ATTCTTTTTT ACATAATTAG TGAAATTTTA TTTTTATTA 60
 GGAAACACTA AATAGTGTA TATTTCTTTT GCTTTTAAAA AAATTCCTGG TAGCAATCA 120
 AGATAAATAA TTGNTTCATT TTCTTGAGCA ATACTGAAGC AGGATGAAGT AAGAGGAATG 180
 CATTCAATTA AACATGCTTT GCTTGNTGAA A 211

SEQ ID NO:2946

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03489

SEQUENCE DESCRIPTION:

GATCAAAGAA CTTTCTTAT AACCTGCAAT CAGCTACTCA GCCAAAAAAC AAAACAAAAC 60
CTTGACTGCC TATGGAGGAA GACTGTGTTC GGGGGAGCTG GCATAGCTAG TGCAGAGTTC 120
AGATTTTCTG CTGATAATCT TTTACACCTT GGGAAACTT TAATATCCGT ACCTGAAGGN 180
TGATTCACCT AAAAATGTGT TAACTGAAA 209

SEQ ID NO:2947

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03490

SEQUENCE DESCRIPTION:

GATCTTCTCT GTGAATCCAC CCCTGGCTAC CCCACCCTG GCTACCCCAA CGGCATCCCA 60
AGGCCAGGTG GGCCCTCAGC TGAGGGAAGG TACGAGCTCC CTGCTGGAGC CTGGGACCCA 120
TGGCACAGGC CAGGCAGCCC GGAGGCTGGG TGGGGCCTCA GTGGGGGCTG CTGCCTGACC 180
CCCAGCACAA TAAAAATGAA ACGTGAAA 208

SEQ ID NO:2948

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03491

SEQUENCE DESCRIPTION:

GATCACACTT NGGCCTTCAC TGCAGCGTGG TGTGGCCACC GTCCGTTTCC TCTCGGCCTT 60
CCTCCGAGTC CAGGTGGACT CTGTGGATGT TTGGATGTGG CCCGAGCAGG CTCAGGCGGC 120
CCCACTNACC NACAGCATCC GCCGCCACCC CTTGGGTGT NAGCNCTCAA TAAAAACAAC 180
ACACTATAAA GTGTTTTTAA ATCCAAA 207

SEQ ID NO:2949

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03492

SEQUENCE DESCRIPTION:

GATCTGAAAA TTCTGGAAA TTGTTCCATG TGATTAACAT GGAAGTGCCT CTACTTAATC 60
ATTCTGAATN ATTAAATCGT TTCATTTTCT AAATGCNTTA TAATGTGTTT AGCCCTTTCT 120
TGTTGCTGTA TGTTTAGATG CTTTCCAATC TTTTGTTACT ACTAATAATG CTATAAAATA 180
AATATCCTTG TACTTCTTG AAA 203

SEQ ID NO:2950

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03493

SEQUENCE DESCRIPTION:

GATCTTNTCT GTNTGGGTGG GGAGCCGGCC GGCCGTGACC CAACGGCATC CCAAGGCCAG 60
 GTGGGCCCTC AGCTGAGGGA AGGTACGAGC TCCCTGCTGG AGCCTGGGAC CCATGGCACA 120
 GGCCAGGCAG CCCGGAGGCT GGGTGGGGCC TCANTGGGGG CTGCTGCCTG ACCCCCAGCA 180
 CAATAAAANT GAAACGTGAA A 201

SEQ ID NO:2951

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03494

SEQUENCE DESCRIPTION:

GATCGTATAT GTGGGTCCCT TCCCTAGAAG AATGGTTGCT GATATGGCTA CTGCTTCTAC 60
 ATCTNGAGTT TTTNAATTTA CTTTTTNAC ACTGTAGCAT TGAGACTGCT TGATTCAAGT 120
 CTGGTGCTTT GCCAGATGTA TTAATTNCCA TAAATGCTTT GTGAGTTTGG TTTAAATGAA 180
 GATTCACTTG GGAAANCAAA 200

SEQ ID NO:2952

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03495

SEQUENCE DESCRIPTION:

GATCACAGCC GGAATGCAGC TGAAAGATTC CCTGGGGCCT GGTCCAACC GCCCACTGTG 60
 GACTCTAAGG CCTCTGCATT TGTGGGTGGT CTGNCTGTAA TATTTTGGTC ATNGGCTGGT 120
 CTGGTCGGTT TCCCATTTGT NTGGCCAGTC TCTATGTGTC TTAATCCCTT GTCCTTCATT 180
 AAAAGCAAAA CTAAAGAAA 199

SEQ ID NO:2953

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03496

SEQUENCE DESCRIPTION:

GATCTCTAGT TTTNTGGTT TAATTTTNAG TAGCAGGTCA AAAACCTGCC CTCCTGTNAC 60
 TTATTCCTG AGACTTTTCA GGAGAGCCAG CCCACAGATG ATGAAGAAAT GATGGAAGTT 120
 CATTGGAGA GTCAATGGG AAAAAACAA AAAAAAACT GCCTTTAATA CAGGCAATTC 180
 AGTGGACTAT AATAATAGTG GAGGGTTGAG ATGTAGAGTT TTTAAAAAGT GAACAGTTGC 240
 TGTTCTTACA TCTNTAANGA AAGCCATAAT GTCTTTAAAT CACTCTTCTG TAAATAGATG 300
 NCCNTTTTGT CAGTGATAA 319

SEQ ID NO:2954

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03497

SEQUENCE DESCRIPTION:

GATCCTTAAT GCAGAGCTAG AGGACTTCTG GCAGGGAAGT GGGGAAGTGT TCCAGATAGC 60
AGGGCATGAA AACTTAGAGA GGTACAAGTG GCTGAAAATC GAGTTTTTCC TCTGTCTTTA 120
AATTTTATAT GGGCTTTGTT ATCTTCCACT GGAAAAGTGT AATAGCATAC ATCAATGGTG 180
TGTTAAAGCT AAA 193

SEQ ID NO:2955

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03498

SEQUENCE DESCRIPTION:

GATCTGTTTC ATTTATAAAA GGTCCAGTTT TTAGGACTAG TACATTCCTG TTATTTTCTG 60
GGTTTTATCA TTTTGCTAA AATAGGATAT AAAAGGGACA AAAAATAAGT AGACTGTTTT 120
TATGTGTGAA TTATTTTCT ACTAAATGTT TTTGTATGAC TGTGTTATAC TTGATAATAT 180
ATATATATAT ATN 193

SEQ ID NO:2956

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03499

SEQUENCE DESCRIPTION:

GATCCAAGAA TGTGCCAAGA GTCCCGCCAG CCTCAGCCAG GTGGGCCTGT ATATAGGGTC 60
CATGTGCAAT AGGGAGGGAC GTCTTCTATT TTTNCTGCC CCCTCCCCGC CCACTGTCTG 120
GGGCAGGGGG AGAAGGTATT TTCGAGATAA AGCACAGGCA CCACAAATAA AAGTCGTGAA 180
GTTGCCACTC AAA 193

SEQ ID NO:2957

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03500

SEQUENCE DESCRIPTION:

GATCTGGGAG CAAGCTACCA ACAGGGGAGA CTCTTTCCTG TATGGACAGC TGCTGTGGAA 60
ATACTGCCCTG CTCTCCCAC CTNCTCANAG CCACAGGAAA GAGGAGGTGA CAGAGAGAGA 120
GCAAGGAAAG TAATGAGGTG GATTGATACT TTCTACTTN CATTAAAATT ATTTTCTAGC 180
CTGCAGTCTA AA 192

SEQ ID NO:2958

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03501

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCATCATGG TGGCCTGCAC CTGTAGTCCC AGCTACTCAG GAGGCTGAGG 60
TGGGAGGATA GTTTGACCCC AGAAAGTTGA GGCTGCAGTG AGCCATGAAT GCACCACTAC 120
ACGCCAGCCT GGATGACAGA GCGAAACCTT GTCTCAAAGT AATTAATAAT AATTATATTA 180
ATTCAGCAAA 190

SEQ ID NO:2959

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03502

SEQUENCE DESCRIPTION:

GATCTGCTTC CCACTGTGAC TGGGCTATGG GATTCTGACT ACCTTGCTTA CAGATTCATG 60
GTTTGATAAA TTTGTTGTAT TCAAAAACCTT GAAATGCAGG ACGCCATTAA GTGTCTGTTT 120
ATATTNTGG AATATTGTA TTAATTACAA TTAATTAATA AAAGTGGGT TAAAAACCT 180
TTCCAGGAAA 190

SEQ ID NO:2960

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03503

SEQUENCE DESCRIPTION:

GATCTTGCCC CCTTTGACCT TCCCAAAGG ATGGTCACAC ACCAGCACTT TATACACTTC 60
TGGCTCACAG GAAAGTGTCT GCAGTAGGN ACCCAGAGTC CCAGGCCCTT GGAGTTGTTT 120
TCGGCAGGGG CCNTNTCTCT CACTGCATTT GGTGAGGGG GCATGAATAA AGGCTACAGG 180
CTCCAACNTG AAA 193

SEQ ID NO:2961

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03504

SEQUENCE DESCRIPTION:

GATCAATCTG AACTATCTT AGCCCAGTCA GGGAGCTCTG CTTCTAGAA AGGCATCTTT 60
CGCCAGTGGG TTCGCCTCAA GGTGAGGCC GCCATTGGAA GATGAAAAAT TGCACCTCCT 120
TGGTGTAGAC AAATANNAGT TCCCATGGT GTTGTGCCT ATAATAACA CTTTTCTTT 180
TTAAA 185

SEQ ID NO:2962

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03505

SEQUENCE DESCRIPTION:

GATCCAACGA GGAATATTTT GCCACACGGC AAATATATAC CGTATAATTT TCTGTACCAC 60
TTGATAGAAA GGTAAAGAAT GAATATTGTT TTTTAAATAA CTTTTTCTT ATATAAGTAA 120
TATGTGCTTA TCGTGTAAC ACCTAAAAAC ATTGAAAAAT AAAAGGAAAA TAAAATTCAT 180
ACATAACCAA A 191

SEQ ID NO:2963

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03506

SEQUENCE DESCRIPTION:

GATCAGAAAT GGAGCATGGC CTTGTCCTTT AATGGGGATG CAAATAAAGT TTGTGGGGTT 60
AAAAGTTATA AGACAGNAGT GATACCCAC TCTCTCCATT ATTGTCCAGC GGGGTGACAT 120
AATGACAGGT TAAATATTTG TGATTCATTG ATTAAATATT ATTTAAAGAA ATGTAAA 177

SEQ ID NO:2964

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03507

SEQUENCE DESCRIPTION:

GATCACAGNG NTGGTGTCAG ATNCTATTNN AGGTTTGAAC TCTTGAGCTG GAACCTCAGC 60
AAACTAGAGT ATATATTGTT CAGTATTTCT TTGGAAACAT TTCATTAATG TACTTGTCTT 120
ACAGAAATTT CTGAACCTTA GTAAAAAAA ATAAAGTTAA ACTTTTAAAA CTCAAA 176

SEQ ID NO:2965

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03508

SEQUENCE DESCRIPTION:

GATCTGAACG ATGCCGTGTC CAGTTTGCGA AGTCCTATTC CCCTCCTCCT GTCGTGTGCC 60
TTTGTTCAGG TGGGGATGTA TTTCATGTAG AAGGTGGAAG AAGGCTGCTA TNACTCTTTG 120
GATGGGAGTC TGGCAAGAGG AAATTGGAAG ATAAATAAAA TAATAAGTGA AA 172

SEQ ID NO:2966

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03509

SEQUENCE DESCRIPTION:

GATCTGCTCT GCTGCCCTGA ACTCTTACGG CAATTTAGGT TTCTCATTTT NNTTTTCTTT 60
 TTACATATGT ACAAATTGTT TTAAGCTTTG GCCTCTATCC AGGTTATNCT GACAATGAAG 120
 AAATGGGAGT TGTCAAGCA TTAATGCA ATCTTCACTA AAANCAGTGA AA 172

SEQ ID NO:2967

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03510

SEQUENCE DESCRIPTION:

GATCTCTAAT ACAGTATCTA ACACAAAAGA AGCTTTAAAA AGACAGTTTC TTCCTTATT 60
 TGATTAGCTA GAAGTTTATC TAGGTAAAG CAAAAAATA ANTTTNCAN GCATANCATA 120
 NCATTGGGGT TCITTTTATA CTCAAGATGT TTANCTGTTC AAANTGNCAN 170

SEQ ID NO:2968

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03511

SEQUENCE DESCRIPTION:

GATCCAGGCG GGAGCAGAAG CTAAAGCCAA AGCCCAAGAG AGTGGCAGTG CCAGCACTGG 60
 TGCCAGTACC AGTACCAATA ACAGTGCCAG TGCCAGTGCC AGCACCAGTG GTGGCTTCAG 120
 TGCTGGTGCC AGCCTGACCG TCACTNTCAC ATTTGGGCTC TTCGCTGGCC TTGGTGGAGC 180
 TGGTGCCAGC ACCANTGGCA GCTCTGGTGC CTGTGGTTTC TCCTACAAGT GAGATTTTAG 240
 ATATTGTAA TCCTGCCAGT TTTTNTTTT TCAAGNCAGG GGTGTCATNC TNAGAAAACC 300
 CTACTCNACA CAGCACTTCT TANGGTAGGC CNCTTATTCA ANTTCAATTT NNAGN 355

SEQ ID NO:2969

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03512

SEQUENCE DESCRIPTION:

GATCTCGGAT GCCATCCCCG AGCTGAAGGC CTCCATCAAG AAGGGGGAAG ATTCGTGAA 60
 GACCCTGAAG TGAGCCGCTG TGACGGGTGG CCAGTTTCTT TAATTATGA AGGCATCATG 120
 TCACTGNAAA GCCGTTGCAG NTAACTTTG TATTNAATT TGCTTGGTG ATGATTACTG 180
 TTTGACATC NTCATGCCTT CCAAATTGTG GGTGGCTCTG TGGGCGCATN ANTANAGCC 240
 GTCCTTGATT TTGGGAAA 258

SEQ ID NO:2970

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03513

SEQUENCE DESCRIPTION:

GATCACAAGA GGCCCATTTG TAGTGGCTGG TTGACAACGG CTGGNGCAAA TTAAATAAAT 60
 AAAATAGCTC TNTCTTTCAA A 81

SEQ ID NO:2971

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03514

SEQUENCE DESCRIPTION:

GATCTNAGAC ATCCCCATCT TTGTAAGCAG AACAGTACGG CACTTCACCA CATCTNCTTC 60
 CCACCATGCT TCTAAGCAGC TGTNTTCCCC CTGCTAATGT TACAACCAAA GCAGCCACCC 120
 CACCTCCTNT NGTGTGAGC CTCACGACCT NTGACCCAGC TGGAAAGCN 169

SEQ ID NO:2972

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03515

SEQUENCE DESCRIPTION:

GATCTCATTG CTGCTTTTCT TTTATGTCCT TTTGTCTCCA TGGGAGGTTG AGCTTCTTTT 60
 CCTACAAGTT TACTTACTGT TTGCATTTAC TTTTCTTTG CATTGTCTGT TCCAGTCCTC 120
 TGGCTATTG ACTATTGTGT AATAAAAGGA CAAAAACAA ATGTGGTN 168

SEQ ID NO:2973

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03516

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGNTCCAC ATTAAGTCTA CAGACCAAAC CATTGTATC 60
 TGGCATCACT TACTAACACA CGNCATGCGG CTTTCTGCA TCAACTGCTA TGACGGTTAA 120
 GANTGTCACT ATACAAGNAG GGATAGAAAA CTGGTACTGT TTTAAATAAT CTGTAATNTC 180
 AATGTTTTTT TTTTNTTTC GGAAANNCT NGTTTGCCC GNTTN 225

SEQ ID NO:2974

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03517

SEQUENCE DESCRIPTION:

GATCTTCTGT GGTGCTTAAG GNAAGTACT AGAGCTCCAC TAACAGTCTC ATAAGGAGGC 60
 AGCCATCATA ACCATTGAAT AGCATGCAAG GGTAAGAATG AGTTTTTANC TGCTTTGTAN 120
 GCAAATGGNA AAGGTCAATA AAGNTATATT TCTTAGNAA ATGGGCAAA 169

SEQ ID NO:2975

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03518

SEQUENCE DESCRIPTION:

GATCCCAACT CCCATGACCT CTGGCTTCAG TGGTGGGTGG GGCAGGGCAG ATGAAAGGGC 60
TTCAGTGGGA ACCTCTGAGA GCATTTTCCT GTTCCCCCTA TCAACCGCCC CCAGTGATAA 120
CATCTGTGAA GCCAGCCATT ACTCAATAAA CTGCAAACTT GTCTAAA 167

SEQ ID NO:2976

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03519

SEQUENCE DESCRIPTION:

GATCAGNAGC CCACTGATAA GGGGCCCTAG GGTACAGGGT GCTGCCCAGC AGGTCGCCAC 60
CGAGTGTCTT CTCATTTTAT TTCAGCTCCA TTTTGCCCAT AGATGGGCAG AGGGGTGAGA 120
TTGGCTCATC CCCCTTCCAG ATTCTGCAAT AAAGCGGTGT GAGGAAA 167

SEQ ID NO:2977

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03520

SEQUENCE DESCRIPTION:

GATCATCCCC TCTTTTNGGA TGTATAAGAN CCTTCCGGAC AACAGAACCT ATTTNTGGAA 60
TTGCAGAAGA TAACATATTT CCCTTATTN NATTTAATCA CCATAAACCA TACCTATTTA 120
ATGAGTGTAT TCTGTGCAAT TTTTCCTCA GATTGTNTTT AACTNNN 167

SEQ ID NO:2978

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03521

SEQUENCE DESCRIPTION:

GATCGACTGC CAAGCAGCAG CCGCTGCCGA GGGGCTGCGT CTGACATCCT GACCTCCTGG 60
ACTGTAGGAC TATATAAAGT ACTACTGTAG AACTGCAATT NCCATTCTTT TAAATGGGTG 120
AAAAATGGTA ATATAACANT ATATGATATA TAANCCTTAA ATGAAA 166

SEQ ID NO:2979

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03522

SEQUENCE DESCRIPTION:

GATCTGGGCG GGGTGGTGCG CTCCTCAGGG CGGATGCCAC CGGGTCCCC AGGGGAATAC 60
 ATGTCCCCAG CTCTGGGAGG GGTITGCTAC TGGCCTCCTA CTTTCCTCCC TAGGTGGACA 120
 GTGCTCCTCT AGAGAGCTGC GACTTTAATT AAAACAACA GGAAA 165

SEQ ID NO:2980

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03523

SEQUENCE DESCRIPTION:

GATCAGTGTC AGATATTGTT GAGGGAAGTA ATTTTATAAA GTTACACAAA GGTAGTTATA 60
 AAAAAAGCCC AGTTTGTITT TCAGAAGGTG ACTTTNATGT GCTTGAAAAG TTTAATATTT 120
 GANTATTGTG TTTAACCACA TGGTATTAAA ATTTTGCAAT ATAAA 165

SEQ ID NO:2981

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03524

SEQUENCE DESCRIPTION:

GATCATGAAA TAATGTGCTT TGTAAGGAGA TTTCAAGTTA TTAGGAAGCA TACTCTGTTT 60
 TTNAATCATG TATAATATTC CATGATACTT TTATAGAACA ATTCTGGCTT CAGGAAAGTC 120
 TAGAAGCAAT ATTTCTTCAA ATAAAAGGTG TTAAACTTT AAA 163

SEQ ID NO:2982

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03525

SEQUENCE DESCRIPTION:

GATCCGCCTG CTCGGCCTC CCAAAGTNCT GGGATTATAG GTGTGAGCCA CCCTGCTCAA 60
 CCAGGTTTNA TTATTTAANT TAGTTAACT TTGGATAGAT TGTATAATAT ATAGTTTAAT 120
 GTAATCATGC TCATATTTT NAAATAAATA AAACACTATA AA 162

SEQ ID NO:2983

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03526

SEQUENCE DESCRIPTION:

GATCACTTGT TGTTTTACTA AAGAAAGATT ACTTAGAGGA AATAAGAAAA ATCATGTTTG 60
 CTCTCCGGT TCTTCAGTG GTTTGAGACA CTGGTTTACA CTTTATGCCG GATGTGCTTT 120
 TCTCAATAT CAGTGCTCGA GACACAGTGA AGCAAATTAA A 161

SEQ ID NO:2984

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03527

SEQUENCE DESCRIPTION:

GATCTGAGGT CTAACATTGT TATCCTATAT CATTTTCATC CCAAGTAGTG ATATCTGTGA 60
AATCACAGGT TTGATGTGTG CTAATNATGT ATTCTTCTAA TACATATTAA AAGACATAAC 120
TATCAAAACA AAATAAATTT GTCTGTTTTT AACCAAAGAA A 161

SEQ ID NO:2985

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03528

SEQUENCE DESCRIPTION:

GATCTCCATT TGATATTTTC ATTTGTATAA CTCATTGCA GTCTGAAAAT TTTTTTAGT 60
GCCAGTCCCT GAACATATCA TTGAAAGTTA ATTTTCTTTG CATTTTAAAA TATCTGGATT 120
ATGAAGAAAA AGTGATGAAA ATAAATTAAA ACTGAATTAA A 161

SEQ ID NO:2986

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03529

SEQUENCE DESCRIPTION:

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGAACCGTGA 60
ACAAAACGTG GTTTTGAGTT TAGCTGACAT TATGGAAAAA AGTTCATCAC GTGACTGTTA 120
ATGTAAACCT GGTATTAAAA ATAACNATGA AATTACCAAA 160

SEQ ID NO:2987

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03530

SEQUENCE DESCRIPTION:

GATCTCTCTG TNACTGACTT TGTGACTGTC CTGTGTTTTT TCCTGCCATT GCTTTGTGTT 60
TGGAAGGACA TGATGGGGGT GATGGACTGG AAAGAAGGTG CCAAAAGTTC CCTCTGTGTT 120
ACTCCCATT AGAAAATAAA CACTTTTAAA TNATAAA 157

SEQ ID NO:2988

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03531

SEQUENCE DESCRIPTION:

GATCAAANCA CCTNGGAGTG GTCACCAGGG GGACAGGGAG CCCCCACCA ATGTATCANT 60
 GGGTGATTTA TNATGCCTTC TGCCCTTTGG CGAGTGAATG GNTTCCCAT AGGGGAAGTT 120
 GGCCTCCCTC CGTGAGCTTT GGAAATNTTT TCTAATN 157

SEQ ID NO:2989

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03532

SEQUENCE DESCRIPTION:

GATCCGAATG GNCTGGGTGA GCACGAATTA CCGAGGCCTT CCCTTTGNTA CAGTCCAGGA 60
 TTTGTAAGGN ATGAAGACCC CTGGNCCCCA TTCTNTTGGG GTCCATACAT ACTCTCCGAA 120
 GATAGCAACT TGCTTCAGGT CAAAGTNAAC CCNAGAN 157

SEQ ID NO:2990

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03533

SEQUENCE DESCRIPTION:

GATCTCCTTA CGTAGCAGCC AAAATAAATG AAGCAAAAGA CTTGCTAGAA ACAACCACCA 60
 AACATTGATG CTTAAGGACC AACTGAAGG AAAAAAAG AGGGGACTTC GAAA 114

SEQ ID NO:2991

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03534

SEQUENCE DESCRIPTION:

GATCTGATTT ACAAGAAAAA GTCAGAGCTA AACACTAGTG ATGGCATAGC ATTACTGAAA 60
 TCATTGTTTC TTAATTTTCAT TTTACTACAT TGTGAACTTG TGATTCAGAT TCCATTTTCT 120
 CAGAGAATTA AAAACAAAAA AAGTACTCTT GTAAA 155

SEQ ID NO:2992

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03535

SEQUENCE DESCRIPTION:

GATCTATTTT TNAGTATGTG GTTCATGCTG TTGTGAAAAA TGTTTTACCT TTNACCTTTG 60
 TCAGTTTGTA ATNAGAGGAT TTCCTTTNAC CCTTTGTAGC TCAGAGAGCA CCTGATGTAT 120
 CATCTCAAAC ACAATAAACA TGCTNCTGAA GGCAAA 156

SEQ ID NO:2993

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03536

SEQUENCE DESCRIPTION:

GATCAAATTA GTAATTNNGT TTATGCTGCT CCTGATATAA CACTTTCAG CCTATAGCAG 60
AAGCACATTT TCAGACTGCA ATATAGAGAC TGTGTTTCATG TGTAAGACT GAGCAGAACT 120
GAAAAATTAC TTATNGGATA TNCATTCTNN NCTN 154

SEQ ID NO:2994

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03537

SEQUENCE DESCRIPTION:

GATCTCATTT ATAATTAAAT TATGTCTATT GGATTGTTTT NATGTACTT NATGTTTTNT 60
NAAGAAATTG TGATTAATAA TAACTTAACG ACTTTCTATT TTNCAGTTAT TTTAATTAGT 120
TACTTCATTT AANCTTTTGG CATTNCATGA TTTN 154

SEQ ID NO:2995

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03538

SEQUENCE DESCRIPTION:

GATCATATAT GTNTTAGTGG ACAGGGGTCT GAAGTACACT GGAATTTACT GAGAACTTG 60
TTTGTAAGAA CTATAGTTAA TAATTATTGC ATTTTCTTAC AAAATATAT TTTGGAAAT 120
TGTATACTGT CAATTAAAGT GTTTTGTGT AAA 153

SEQ ID NO:2996

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03539

SEQUENCE DESCRIPTION:

GATCAAATA CACATGNGTT TTCATTCAA AAGTGGGTTT TAAANGCCTG GCTGCATCTG 60
TATGNAATCA AGGCACACTC CAGGAAGACT GCCGCGTCGC GCCAACACGT CATACTCAAT 120
GCCTCAGACT TTCATATTTT TGNNGTGCTG NNN 153

SEQ ID NO:2997

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03540

SEQUENCE DESCRIPTION:

GATCCCAGCA TCTTCTCCAC TTCAGCGCTG AGTTCAGTAT ACACAAGTGT CTGCTACAGT 60
 CGCCAAATCA CCAGTATTTG CTTATATAGC AATGAGTTTT ATTTTGTTTA TTTGTTTTGC 120
 AATAAAGGAT ATGAAGGTGG CTGGCTAGGA AA 152

SEQ ID NO:2998

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03541

SEQUENCE DESCRIPTION:

GATCATTGG ATATAGCAAT CTA CTCTGAG AAATGGAACA CAAGGAGTTA CCTATCACTT 60
 TCACTTATAA TTCCAAAAGA TGACTACAAC CATGTCCATG CTCAGATTCA AACAGTTTTTC 120
 CATATCACTT TTGGGTGGTA ATTACAGTTT TN 152

SEQ ID NO:2999

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03542

SEQUENCE DESCRIPTION:

GATCCCTGTN TGCNCGNCCC CTCTGCAATG TATGCCCCCTT GCCCCTTCCC CACACTAATA 60
 ATTTATATAT ATAAATATCT ATATGANGCT CTTAAAAAAA CATCCCAACC AAAACCAACC 120
 AAACAAAAAC ATCCTCACAA CTCGCCAGGA AA 152

SEQ ID NO:3000

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03543

SEQUENCE DESCRIPTION:

GATCCAGAAG CAAACACAAG CAATGCAAGA CCTCCACAGA GTGAGCTTGG AGAGAGAGAA 60
 AGCCAAGATA AGAGAGGAGT ATGANGAGAA ANTCAGAAAG CTGGAAGATA AAGTGGAGCA 120
 GGNAAAGAGA AAGANGCAA TGGNGANGAN N 151

SEQ ID NO:3001

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03544

SEQUENCE DESCRIPTION:

GATCTGGAGA TAANTTTATG CCTTTGGCCA TAGACAGGAC TGAATCCCA GTTCTGCCAC 60
 TTA CTGGCTG TTTGACCTTA GGCAAGCCAC TCCTCCTTN TNAGCCTCAG TTTCTTTNCC 120
 TGTAAGATAA AAAGAATGAN TCATTACTAA A 151

SEQ ID NO:3002

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03545

SEQUENCE DESCRIPTION:

GATCAGGGCT GGGGCGGGGA AACAAAGGAA GGACCTTGA AGGGGCTGNN CCCAGGCCTG 60
GGGGGCAGTC GTGGGAGCCC CTCTCANCTG TGGGGCTGGC ACAGAGCCCC AGGCAAGCTT 120
TTAATAAACT GTTGGTTATT CTAACAGAAA 150

SEQ ID NO:3003

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03546

SEQUENCE DESCRIPTION:

GATCTCAAAA ATAGGTAATT TTTCTTTGCC GACCTGTAAA AGTGTGCCAA TACTACTAAAT 60
TTGTGATTTT AAATTAATTC CTCCAGCTGT TGAAATGAAG TCTGCCAAAT CTTGCTCTAA 120
CAATAAAAT GTTATCTAAA TGAAGTAAA 149

SEQ ID NO:3004

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03547

SEQUENCE DESCRIPTION:

GATCCTAAAA GGGAAAATTG CCTTGGTAAC TTTNAGATTC CTGTGGAATT GTGAATNCAT 60
ACTAAGCTTT CTGTGCAGTC TCACCATTG CATCACTGAG GATGAAACTN ACTTNGTNT 120
TTNGGAGAAA AAAAAGTGTN CTGCTTGTN 149

SEQ ID NO:3005

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03548

SEQUENCE DESCRIPTION:

GATCCTAGGA TGCGTCCCAG ACGCTCAGTC AGAAGTGCTG GAGGTGGGGC CTGGGAAGCT 60
GTATTTGTAA TNAAGTCTGG NGTTTTTGT CCATTAAAGT GTATCTTGT CCATCCTATA 120
AGNTTANNGG AAAGAAAAAG CATCTCAAAT NAGTGTAAGT TGTCTTGAG AAAAAAATGT 180
ATCAGACTTT TATGATTGTA ATGAAATGTA TTATAGNAAA ANATAAACAC NTTTAAANTA 240
AA 242

SEQ ID NO:3006

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03549

SEQUENCE DESCRIPTION:

GATCCAGTTG TACTTAAGTG TGTAACAGGA ATATTTTGCA GAATATAGGT TTAAGTGAAT 60
GAAGCCATAT TAATAACTGC ATTTTCCTAA CTTTGAAAAA TTTTGCAAAT GTCTTAGGTG 120
ATTTAAATAA ATNAGTATTG GGCCTAAA 148

SEQ ID NO:3007

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03550

SEQUENCE DESCRIPTION:

GATCATCGTG CTCTCAGACT CTGATTAGCT GCCTCCCTT CTCCCTGCCT CCAGAATGTT 60
CTGGGATAAC ATTTGGAGGA AGGTGGGAAG CAGATGACTG AGGAAGGGAT GGACTAAGCT 120
AATCCCCTTT TGGTGGTGT TCTTTAAA 148

SEQ ID NO:3008

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03551

SEQUENCE DESCRIPTION:

GATCAGTCCA CCCAGAGTTA GACATTGTTT TTGTAGAAAA CAGGTATTTA TTATGTCTAG 60
GGTTTGTGT TTTTTTTTTT TCCTNANAGG NTAAAAGCCT TTATACAGAA ANAATTTGGA 120
ACCTTTNATA TAAAACCTTT TCTTTAAA 148

SEQ ID NO:3009

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03552

SEQUENCE DESCRIPTION:

GATCGCTGTG GTTCTTATTA TCAAAATTAA GTTTACTTGT ATACGGAACA ACCACAAGAA 60
ATTTGATTCT GTAAAGAATC CTCTTTAGCT GTGGCCTGGC AGTATATAAA TGGTGCTTTA 120
TTTAACAGAA TACCTGTGGA GGAAATAAAG CACACTTGAT GTAAAANTAA A 171

SEQ ID NO:3010

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03553

SEQUENCE DESCRIPTION:

GATCTTTTAA TTTTGCAATC CTGGGCCAGC TAGAAGCCAG GAGCTGATTG ACCTTTTAA 60
TTTTTTCAGT GGCCACATTT TGGTTATCGA TGTACCTAGA AGTATGTAAA TNAGATTAAA 120
TTTCTCTTCT GGAAACACCC TGAAA 145

SEQ ID NO:3011

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03554

SEQUENCE DESCRIPTION:

GATCATAGAG AATGGTGCTT TTTACTACAG TTAGCACATG CATTTTTAGA AACTACTACA 60
TGTTTTAGAG AATCTTTGCT GTGTATATGT AAAGTGTATT GTTCAACTGT TAACAAATAA 120
TAAATTATTT CATTATTAAA GAAA 144

SEQ ID NO:3012

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03555

SEQUENCE DESCRIPTION:

GATCTGCCCT NCTCCTTCTA AAGGGTAAGT CATAATCTGT GTAATACTAC AATTNATGGG 60
NTGCTCACTA TGCCCTGTTT CTNTNCTAAA CAATTTACAT GTAATGTCTC ATTCCTCACA 120
ATAACCCCTG TAAAGTGGGC ANNN 144

SEQ ID NO:3013

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03556

SEQUENCE DESCRIPTION:

GATCCCCAGC TGCCTCACTT CTCTCTTGAG AACTTGGCTC AGGGCTCCTG AGGACCTTTC 60
CCAGCATTAC CTTCCCTTCC CTTGAAAGGC AATTGTTGGC TGTTTTCATA AGCAGGAAAA 120
NTAAACAGAA GTATAAAGGA AA 142

SEQ ID NO:3014

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03557

SEQUENCE DESCRIPTION:

GATCAAAATGT GCCTTAATAA ATTTNTTTTC ATTTAGATTT CAAACAGTGA TAGACTTGCC 60
ATTTTAATAC ACGTCATTGG AGGGCTGCGT ATTTGTAAAT AGCCTGATGC TCATTGGGAA 120
AAATAAACCA GTGAACAATA AA 142

SEQ ID NO:3015

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03558

SEQUENCE DESCRIPTION:

GATCTAAAGA AACAGTTGGC TGTAGCTGAG GGGAAACCCC CTGAAGCCCC TAAAGGCAAG 60
 AAGAAAAAGT AAAAGACCTT GGCTCATAGA AAGTCACTTT AATAGATAGG GACAGTAATA 120
 AATAAATGTA CAATCTCTAT ATACAAA 147

SEQ ID NO:3016

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03559

SEQUENCE DESCRIPTION:

GATCCCAGCA ATGAACTGTT CTAGGGAAAG TGGCTTCCTG CCCAACTGG ATGGGACACG 60
 TGGGGAGTGG GGTGGGGGGA GCTATTTCCA AGGCCCTCC CTGTTCCCC AGCAATTAAA 120
 ACGGACTCAT CTCTGGCAAA 140

SEQ ID NO:3017

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03560

SEQUENCE DESCRIPTION:

GATCTCAGCT TTGAGAAGCC TTCAGCTCCA GGAATCCAA GCCTCCACAG CGAGGGCAGC 60
 TGCTATTTAT TTTCCTAAAG AGAGTATTTT TATACAAACC TACCAAAATG GAATAAAAGG 120
 CTTGANGCTG TGGCCTGAGT GCCTCACTGG AAA 153

SEQ ID NO:3018

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03561

SEQUENCE DESCRIPTION:

GATCACGAAG GTGGTTTTCC CAGGGCGAGG CTTATCCATT GCACTCCGGA TGTGCTGACC 60
 CCTGCGATTT CCCCAAATGT GGGAACTCG ACTGCATAAT TTGTGGTAGT GGGGGACTGC 120
 GTTCGCGCTT TAAA 134

SEQ ID NO:3019

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03562

SEQUENCE DESCRIPTION:

GATCTATCTT NCAGAAAGTA TGTTTTCTT CATAAAAGTG CCTCTTAATT GGCCATTGTA 60
 CCAGCCACTT GTCCTAGCCA AATGTCCAAA ACACGCCCTT GGGCCCCGCC ACGTTACAAT 120
 CCACANNNNN N 131

SEQ ID NO:3020

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03563

SEQUENCE DESCRIPTION:

GATCACTGTN ATGTGTGGTC CATCTCTGAC CAAAACGTTA TGCAGTACGT GACTGTATCC 60
TNATCCTCAA TAATCCTTGG TTATTATTCT AGAATTTCAA ATAAATGGAA TCATATCATT 120
TACTATGTAA A 131

SEQ ID NO:3021

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03564

SEQUENCE DESCRIPTION:

GATCCAGTGA ATGATTCAAG AGAGCTACAT TTGAAGCCTG TACAAAAGCT TATCCCTGTA 60
ACACATGTGC CATAATATAC AAACCTCTAC TTTCGTCAGT CCTTAACATC TACCTCTCTG 120
AATTTTCATG AATTTCTATT TCACAAGGGT AATTGTTTTA TATACACTGG CAGCAGCATA 180
CAATAAANCT TAGTATGAAA CTTTAAA 207

SEQ ID NO:3022

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03565

SEQUENCE DESCRIPTION:

GATCCTGAGA ATTACTTTTA ATAAATCAT TTTTTGCTG TTATTAACAC TAGNCNNGAA 60
TTGCCTAAAN CCAAGAACTC TGCTTGATAA AATAAGCATA GTNTTAGGAA CAGCCATGCA 120
GATATAANTN 130

SEQ ID NO:3023

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03566

SEQUENCE DESCRIPTION:

GATCATCGAC CCCCAAGGGA CCCGCAGACC CTTAAAAAAA TCACCCACAA CCCTCTGGAA 60
GTGGCCTTGC CCGGTCCTCC TCCAGGGGC GAGGTCGGCA AAGCAACATG GCAGAGCAGT 120
CATAGGAAA 129

SEQ ID NO:3024

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03567

SEQUENCE DESCRIPTION:

GATCACCTTT TTTTATGC GTTGTGAATA GCAGTCTGCA TCCTAAGTTT AAAATATTTG 60
AGAATCCTCT ATGGGACTCT CTGTAAATNT TTAAATACT GTTGTTTTCA ATAAATATTT 120
TATACTAAA 129

SEQ ID NO:3025

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03568

SEQUENCE DESCRIPTION:

GATCAGCTGT CCTCTCTGAA AAAAATTGCA CCNNTTTTC TTTTAAAA TTTGTTGCA 60
TCTTCGTAGT AATGTAATTG TATTTTATGC CTGCTTTTT ATAAAAAAT AAAATAAAAT 120
AAATGAAA 129

SEQ ID NO:3026

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03569

SEQUENCE DESCRIPTION:

GATCTAAATN TGA CTGTGGT TGCACATATC TGTGNATATA CTAAAAACCA NTGATTTGTA 60
CACTTTACAT GGGTGAGTTG TATGGTGTGT GAATTATATT TCAATAAAGC TGGGTTGTTT 120
TTGTCAAN 129

SEQ ID NO:3027

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03570

SEQUENCE DESCRIPTION:

GATCCCAGGA TTCAGTATTC CTGGCCCAGA GGNCTTGCT GGCTACTGGG TGTTAGTTG 60
CAGTCCTGTG TGCTCCCTC TCTTATGACT GTGTCCCTGG TTGTCAATAA AATATTCCT 120
GGCCTCCTGG AATCTNTAA 140

SEQ ID NO:3028

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03571

SEQUENCE DESCRIPTION:

GATCCTACGA CAGGACCCAG ATGCCAGTGA AAGTGACCAC AGCCCTGCTC TAGTCACCCC 60
GGAAGCTGAC CAGTCTACGC ACGGCCGAAG CTTCGTCAAG GAAGTAAATG TAGTTAGAAA 120

TCTTAAA

127

SEQ ID NO:3029

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03572

SEQUENCE DESCRIPTION:

GATCTAGAGT ATAAGCTGCG CAAGGGCAGA AGTTTTTATC TGGTTTGTTT ATGGATGTAT 60
 TCTAAGAGCT GAGAACAGGG CCTGGACACA ATAAGCATT C AATAAATATT TACTGAATGA 120
 ATGAACTCCT ACCTATATTC CTATTTATAA TTTGGCTCCA CTTTATCCTA CTTTAGCTCC 180
 CATTCAATTC AATAAAAAAA ACATTTTTTN GNACACATAT AAA 223

SEQ ID NO:3030

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03573

SEQUENCE DESCRIPTION:

GATCCATCTC AGTCACTTTT TCCCCTGCAA TCGTCTTGT GAAATTGTGT AGAGTGTGTTG 60
 TGAGCTTTTT GTTCCCTCAT TCTGCATTAA TAATAGCTAA TAATAAATGC ATAGAGNAAT 120
 TAAACTGTGA AA 132

SEQ ID NO:3031

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03574

SEQUENCE DESCRIPTION:

GATCCAGTTT TNCTACAAAG AACAAAGTGG TTGACAACAG TGACAGTAAT TNCTGGAGCA 60
 AAACCAAAAG ACATAGGTAA AGANCATATA ATTGTTAATA AAGCACACTG CTTTCAACAC 120
 AAA 123

SEQ ID NO:3032

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03575

SEQUENCE DESCRIPTION:

GATCCAAGTG TTTTAACAAT TGGGGCTGTT AAGTCTGACC ATACATCACT GTGATAGAAT 60
 GTGGGCTTTT TCANGGGTGA AGATACAAGT CTTAACCACA GTGTAACCTA CAGTTTCCTT 120
 TAAA 124

SEQ ID NO:3033

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03576

SEQUENCE DESCRIPTION:

GATCAGAGCA AGCCTTGCCT CTTATCTTCG GGAAACCAGA ATATGTTTGG GGTGGTAGGA 60
GCCACACAGA CTCTTCTGAG CCCCTCACT CACTTCCTTC CCCCTGTGCC TTTCCTTTGA 120
GAGTGAAGGT GGGTNGAGTT GACCAGAGAA AGGGGAGAGA ATTCGGGAAA GACCCAAAGT 180
NTTTGTAATT CTTCTTTGTC CTTTACCTA CAGAAATGGT CACATGGTTC TATTAAATA 240
GCCTAATAAA CACATCTGGA GCCTGTCAAA 270

SEQ ID NO:3034

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03577

SEQUENCE DESCRIPTION:

GATCTCAAAG ATACACAGTA CCTACTTAAT TCCAGCTGAT GGGAGACCAA AGAATTTGCA 60
AGTGGATGGT TTGGTATCAC TGTAATAAA AAGAGGGCCT GGAATTCTT GCGATTCCAT 120
CTCTAAA 127

SEQ ID NO:3035

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03578

SEQUENCE DESCRIPTION:

GATCCCTACC TGCTCCCCGC TCCGGTTGCC AGCAGCACTC ACTGCACTCC TTTGTCATAT 60
ACTCTGCATC ACTGTCATAC TCACANCTTC GTGAATAAAG TTGTGTGCTT TATTCGTAAA 120

SEQ ID NO:3036

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03579

SEQUENCE DESCRIPTION:

GATCAGGGAC CTCACGCATC TTTTCTCAT ATACATGGNC TCTCTGTTGG CCTGCAAACA 60
CATTTNCTTC TCCGCTTATN AGACTATTTA NCTTTAATAA AGCACTGGAT ATAAATCAAA 120

SEQ ID NO:3037

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03580

SEQUENCE DESCRIPTION:

GATCTAAAGC TNAACAATGA AAATCTTCAG CAGAAATAGA AATNGCCGTG GATTGTAATA 60

CACACTGAAA TTCTNACTTT CTGAATTAA ATGTAGAATA AATTNACCA ACTTGGAGTA 120
CTGTATGAGT ATTCNAGTA GGGGGAATAA ACTCAAANTT ATATTNTNT TGCAAA 176

SEQ ID NO:3038

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03581

SEQUENCE DESCRIPTION:

GATCTGAAAT GTCTGAGAGT AATAGTTTCT GTTGAATTTT TTTTGTTC TTTTCTGCA 60
CAGTCCATTC TGTTTTNATT ACTATCTAGG CTTGAAATAT ATAGTTTGAA ATNATGAAA 119

SEQ ID NO:3039

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03582

SEQUENCE DESCRIPTION:

GATCAGAATA TGACATTGCA GTAAAGNGCT TAAATAGTTT CATCTNTGGT TTTTTTTTCT 60
AGACACTTTT CTTTTATCCC AGNCATCTCT GAATTACAT TTTATATTAA AGAAATTGAG 120
CTATCCATAC AACCTGTATT TACTTTAATT TCACTATGCT TTCAGCTTAC TTTATTGTAT 180
GNTATGTAGG TCTAAATAT AGTTTGAGTC AAATAAAATT AGGGGGGCTT TAAA 234

SEQ ID NO:3040

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03583

SEQUENCE DESCRIPTION:

GATCATGACA CTNAAGCGTG ATGAGACGCT CCAGGATGGC TGTNATACTC ACTTCTGCAA 60
GGTCAATGAG AGAGGAGAGT ACTTCTGGGN GAAGAGGGTC ACAGGCTNCC CACCCTTNA 120
TGAACACANG TN 132

SEQ ID NO:3041

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03584

SEQUENCE DESCRIPTION:

GATCCCTAAA AATGTTGAGG GACTTCTGTT CATTCAATCCC GAGAACATTG GCTTCCACAT 60
CAGATATCT ACCCTTACAT GGTTAGGAT TAAAGCCAGG CAATCTTTTA CTATGAAA 118

SEQ ID NO:3042

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03585

SEQUENCE DESCRIPTION:

GATCGGACCG TTCATGCTGC CTATAGGCAT TATGTCCCTC AAAAAAAAAAC TCCTTNCCT 60
GCATCCTGTG TACAACATGA CATTTTTAAC CAATCCAATC TAAAAATGTN CCAGAAA 117

SEQ ID NO:3043

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03586

SEQUENCE DESCRIPTION:

GATCAGAAAGT GGCAGTCTAT AACTNAAAAT GTGGTAAAGT ACTTGANGCA AACATCCCGG 60
ATCGCTGTTG GACCTCTNAN ACTTTCTACT TTAACAGTTT CACAGTCTTT NCCAGTN 117

SEQ ID NO:3044

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03587

SEQUENCE DESCRIPTION:

GATCTCTCC ACCCTGTACC AGGCAGCAGC TCCAGTCTC ACACCAGCCA AGGTCACAGG 60
CAAGAGCAAG AAGAGAACT GACCCTGAAT GTTCAATAAA GTTGATTCTT TGTAAG 116

SEQ ID NO:3045

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03588

SEQUENCE DESCRIPTION:

GATCTGAAAT CNNGGTCTTC CAAGNAGAA AATCGANCTG GGAATAAAG AGAAGACCTG 60
TGATGGGGCA GCAGTGACGC NCTGTGGGGG GACAGGTGGA CGTGGAGAGC TCTTTN 116

SEQ ID NO:3046

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03589

SEQUENCE DESCRIPTION:

GATCTGAAG AAATCATATG TTAAACATAC TTNACACCT ACTGTGTTAT AAAATATATC 60
ATCAGATGTG CCTTGAGAAT AGTATATGTA ACATTAAAAA AAAGTTGCTG GCTAAA 116

SEQ ID NO:3047

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03590

SEQUENCE DESCRIPTION:

GATCCTTGGA CTTTGTGTTT TTGATTNTAT GTTGATATTC TAAAAACATC TATTTTAATG 60
TTATTTCTGT TCTAAAAATA AGATAATAAA TATTAACAAA CTTTGCTTTT TAAA 115

SEQ ID NO:3048

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03591

SEQUENCE DESCRIPTION:

GATCTCAACA AGAAGCTGTA TTTTAAGTAT TAAGACAGTT CTTTGTTAGC TGGTTTCTAG 60
TTGGTTATCT AGTTACCAAT GCTGCAGTCC TGCAGTCACC TATACATTAT TTAAATNTAT 120
TTAACTGTGA AATGCGCTAC CCACCAATAA TGAAATAGAC CTTTATGAAA ACTGTGAAA 179

SEQ ID NO:3049

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03592

SEQUENCE DESCRIPTION:

GATCCTGAGG AAAGACTTGG AAGAGACCAG CATGTCTTCA GTAGCCAAAC TACTTCTTGA 60
GCATAGATAG GTATAGTGGG TTNCTTGAG GTGGTAAGGC TTTGCTGGAC CCTGTTGCAG 120
GCAAAAGGAG TAATTGATT AAAGTACTGT TAATGATGTT AATGATTNT TTTAAACTC 180
ATATTATTGG GATTTTCACC CAAAATAATG CTTTTTGAAA AAAGGAAAAA AAAACCGGN 239

SEQ ID NO:3050

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03593

SEQUENCE DESCRIPTION:

GATCTTGGCT TTCTNTTCC TCTTCTCCTN CAGGGTGTCT GTNACTGCNN GGTACTTCCA 60
GCCAACCTCG TGAGCCAGGC GCCCCAGATA GGCAAACCTT CTTGTAGGCT TCAN 114

SEQ ID NO:3051

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03594

SEQUENCE DESCRIPTION:

GATCTGTATA TGCTATCCTA ACTGTTAATT GTATTATTGA TTATNTTGAT TATCTTGCTT 60
GAAGGTTTCACTTTTCAAT TTGATAGAAA TAAAGTTTTT NCCTGCTTAT AAA 113

SEQ ID NO:3052

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03595

SEQUENCE DESCRIPTION:

GATCCTCTCT TCATTTTACT CAGCCAGGTT TTGTACTGAT GTACAGGTGT TAAATNACTT 60
CAAGTATTTT TGTAAGAGGT GTATATAATT CAATAAAAAA GGTAAACAT AAA 113

SEQ ID NO:3053

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03596

SEQUENCE DESCRIPTION:

GATCGACAAG GAGTACTTGC TAAAAATGGC AACAGAGGAG TGAGGAGTGC TGCTGTAGAT 60
GACAACCTCC ATTCTATTTT AGAATAAATT CCCAACTTCT CTTGCTTTCT ATGCTGTTTG 120
TAGTGAAATA ATAGAATGAG CACCCATTCC AAAGCTTTAA A 161

SEQ ID NO:3054

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03597

SEQUENCE DESCRIPTION:

GATCCGNACC CCAAGCCCAT GCAACCCACG CTCGGTCCCG TTCCGGCCCC TGCNCCCCGC 60
TGCNCTTCGC TCCCGNCCT TGCNCCGTTA GTAAACATCG CTCAAACGAA A 111

SEQ ID NO:3055

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03598

SEQUENCE DESCRIPTION:

GATCTAACAA GTTACATTGT ATAGTTTCTG GGACTGTTTG AATATTCTAT TCCAATGGGC 60
ATTATTTTTT TATCCTGTCA TTAAAAAAA AAGACTGTTA CCCTGCTAAA 110

SEQ ID NO:3056

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03599

SEQUENCE DESCRIPTION:

GATCTCCTCC ATCCTGCTGC CCACCCCTCT TGAGTGTCTT AAGGGACAGA NCTTTCACC 60
CCTGGAAGAT GGAAATAAAC CTGCGTGTGG GTGGAGTGT AGGACCAA 109

SEQ ID NO:3057

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03600

SEQUENCE DESCRIPTION:

GATCAGAGTG TTNTAAATCA TCACGCCCTT AGCTTATCCC TNGTCGAGCC AGGACACGGG 60
GTGCTTCAGT GGGTCTGTNA CCCTCTCTCC TTGAAGCATG TTGCTGNNN 109

SEQ ID NO:3058

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03602

SEQUENCE DESCRIPTION:

GATCCCTGAA TGTGAACCTG AAGTTCAAAG GACTTGAAAA GCTCTGGAAT GTGTTGGTTT 60
TTCCCCCCTA AAATGGGTCC TAAGGAGGGT AAAGTGACTT GTTCAAAA 108

SEQ ID NO:3059

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03603

SEQUENCE DESCRIPTION:

GATCAGTTTC TTTNGCTTCA AGATTGAAA CCAGAAAGGA AAGTCCNACT TGCAGATGAT 60
TGTCTTAAA ACCTAATGGA AAANTAAAAG ANAGACATAC CATGAAAA 108

SEQ ID NO:3060

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03604

SEQUENCE DESCRIPTION:

GATCCATCAT TGTTACAAA CTTCACTGTC AAGAACCTTT TCGTTGCATA ATGTGCAAAT 60
AGTTAAAACC ACTGTACTAT ATACTTAAAA ATGATTAAGA TAGTAAA 107

SEQ ID NO:3061

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03605

SEQUENCE DESCRIPTION:

GATCTGGCAG CTGAGGCCCG AGGCAGGGTT GGNGTGATGC CAGGGCAAAG TGGTGAGGAG 60
AAAACAGGAA NCGGGCTTTC NCCNCATTGG TAAATGGGAA AGAGGTGAGC AACTTAAGAT 120

TGTCACAATT AATCACAAGT GTACAGGATT AGACTGGGTT TATATTTAAC TCTTGCTNCA 180
TAGGTGTACC ATTTAAAGAG TGTATTATA TGCTAAGTTT AACTGCTTTA ATAAAGTTTA 240
TTTTTAAATA AA 252

SEQ ID NO:3062

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03606

SEQUENCE DESCRIPTION:

GATCAACAAA ATAAGTTGTA TCTCCTGCTT AANTCCTTTA TACTACCTGG NGAAAAGTAT 60
TTCCCATATT TCCAATAAAT GTCAGACACT ATTGAGAAAG AAA 103

SEQ ID NO:3063

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03607

SEQUENCE DESCRIPTION:

GATCCTGNAT NANGCCCGGG CCAGCGAGTG CAGGGACGTG GAGGGNTTCA AAACCGAGAT 60
GGCCATGCTG GTGACCCAGG CCAGGAAGAA CACCATCACC CNN 103

SEQ ID NO:3064

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03608

SEQUENCE DESCRIPTION:

GATCCTCACA GTCAAGTGAC GAGGCTGGGG CTGAAAGCAG AAGCATGCAC AGGGAGGAGA 60
CCACTTTTAT TGCTTGCTTN GGTGGATGGG TCAGGAGGGT CTGAGGGCCT GTCCAGACA 120
ATAAAGGTNC CCTCAGCGGA TGTGGGCCAT GTCACCAAA 159

SEQ ID NO:3065

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03609

SEQUENCE DESCRIPTION:

GATCCTATCG CCTTTNAGTA GAATATGAAA TATTCTTTNA GAAATCCAAT ATAAATAGGT 60
TATAATAGCC ATATNCTTNA TNACTTTATT GAGATATAAT TN 102

SEQ ID NO:3066

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03610

SEQUENCE DESCRIPTION:

GATCTNAGCT CCCACCTCCC TTCCACCTA CTGCACTTTC CCCCTTCCCG CCTTCCAAAA 60
CCTGCTTCCT TCAGTTTGTA AAGTCGGTGA TTATATTNT GGGGGCTTTC CTTNATTN 120
TAAAATGNAA AATTATNTA TANTCCGTAT TTAAAGTTGT AAAAAAATA NCCACAGAAC 180
AGNGAN 186

SEQ ID NO:3067

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03611

SEQUENCE DESCRIPTION:

GATCTCAGAC AGTGTGCGGC GGCACATGAG CGGCTTCCCG CAGTGTCTCG TNTTGAGCCA 60
CTGCAGTCTG GGCCCCATCA TTAAACGGGC TCGGTTTAAA 100

SEQ ID NO:3068

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03612

SEQUENCE DESCRIPTION:

GATCTCCAGT NAGACTCCAG GGTTCAGAC AGAGGCCAGT NTTGGCCACT CACCCACAC 60
CCCGCGGACC CCAATAAAGG CTGTCATAGC TCCAGAAA 98

SEQ ID NO:3069

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03613

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTNACCGGG CTCAAAGGG CAAATGGAGC TGCCCTCNTC TGTATCAGGT 60
TTATTGGTTG TACATATAAA TNATACTTNC CTTTCAAA 98

SEQ ID NO:3070

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03614

SEQUENCE DESCRIPTION:

GATCCTGTTT AACAAAGATA CTTGAGACAT CCATTGTTT TAATGAAATC TGTATGGATA 60
TGGAAATNCT TGCCCTAATA AAAGCCTACA TATACCTTCT GGTAAAA 107

SEQ ID NO:3071

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03615

SEQUENCE DESCRIPTION:

GATCTNTCCG TTCTCAGGCC AGACCCCTGG TGCTGCCGTT AATTTTTTTT TCTCTGTCTT 60
TGCTGCAATN TTAAATAAA ATGCCAAAGA ACACAAA 97

SEQ ID NO:3072

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03616

SEQUENCE DESCRIPTION:

GATCCTAAAC AAATCATCTT TGTCAGTTAA GTATAGTTGC GCAAAAATTG TTAAATCCTT 60
TGTCTTTATT AAAGAAAAAT TTGAGTAACA TTAAT 95

SEQ ID NO:3073

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03617

SEQUENCE DESCRIPTION:

GATCTAAGTG ATGAGTCTAG GTGTGTTATT GTNCAGTTTT TNCAACTTTC CTGGAAAACG 60
AACTTTTCAA AATAAAAAAT TGGAAAAATA GAAA 94

SEQ ID NO:3074

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03618

SEQUENCE DESCRIPTION:

GATCACTTTG AGAAACAAAC TTTTATTAAA TGTAAGGCAC TTTTCTATGA ATTTTAAATA 60
TAAAAATAAA TATTGTTCTG ATTATNACTG AAAAGATGTC AGCCATTTC A TGTCCTGGG 120
AAACAATTTT TTGTTTTTGT TCTGTTTTCT TTTTGCTTCA ATAAACAAT AGCTGGCTCT 180
AAA 183

SEQ ID NO:3075

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03619

SEQUENCE DESCRIPTION:

GATCTGCCAT ATTTGNTNTT GGTTTTAATT TTCATATCCA GCCTAAAGGT GGTGTTTAT 60
NATATAGTAA TAAATCATTG CTGTACAATA AA 92

SEQ ID NO:3076

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03620

SEQUENCE DESCRIPTION:

GATCAGGCTG CCTCCTGGNT TGGNTGTCGG GGGAGCTGTC CGGCAGCCTG GCAGGGAGAT 60

GCAAGGCCTA AAGTAAAATT TTNTCAAGTA AA 92

SEQ ID NO:3077

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03621

SEQUENCE DESCRIPTION:

GATCTAGCCC CTCTTCAGG CCGAGAGAAT TTCGAGCGTT ANCCGTCTCT TGGCCACCAG 60

CTAAATAAAC GGATTCTTCA TGTGTCTCAA A 91

SEQ ID NO:3078

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03622

SEQUENCE DESCRIPTION:

GATCTGCTAT TGTATTCTTCT CCTCTTTATT GGAAAAAGGC CTCAGTTTTA ATTATTTTCT 60

TCCCAAAATA AATNACACAT TTGGTTACAA A 91

SEQ ID NO:3079

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03623

SEQUENCE DESCRIPTION:

GATCCTGCAT CAGCATTGTA TATATGGNCT TAAGTGCCTG GCCTCCTTAT CCTTCAGAAT 60

ATTATTTNA CTTACAATCC TCAAGTTTTA ATTGATTTTA AATATTTTCC AATACAACAG 120

TTTAGGTTTA AGATGACCAA TGACAATGAC CACCTTGCA GAAAGTAAAC TGATTGANTA 180

ANTAANTCTC CGTTTNNITC ANTTNATTC AGTGTAATGA NAANGTTGCT TAGTATTTN 239

SEQ ID NO:3080

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03624

SEQUENCE DESCRIPTION:

GATCCCTGCC CTGCACCAGC ACCCTGANAT GGAGCTGAGA CTTTATTTAT TGGGGGTAGG 60

GGGATGGAGG AGGTCCCTCC AACATGTTTG GACCCAGCTC CTTTGGGTTT CACTGACACC 120
CCTGCCCCCTG CCCCTGCCCA GAACCAAGTG CCATTTCTCA CTCTGGAGCC TTAATAAACT 180
GCAATTTGTA TCCAAA 196

SEQ ID NO:3081

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03625

SEQUENCE DESCRIPTION:

GATCTGTGTA CTGTTTACTT CCCACTTCCC AGAATCCCTT GTATCTCCTT TCTCGGGAAT 60
TGTATTTTCT AATAAATGAC ATTTGAGAAA 90

SEQ ID NO:3082

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03626

SEQUENCE DESCRIPTION:

GATCTCTGGA AGTGTAATTN TGAAAGAAAC TTNCTTGCAG CTTTAACAAA ATGAGAAACT 60
TNCCAAATAA AACTTGTTTT GAAGTTTAAA 90

SEQ ID NO:3083

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03627

SEQUENCE DESCRIPTION:

GATCCTCGGG AAGAACAAAG CTAAAGCTGC CTTTTGTCTG TTATTTTATT TTTTGAAGT 60
TTAAATAAAG TTTACTAATT TTGACCAA 89

SEQ ID NO:3084

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03628

SEQUENCE DESCRIPTION:

GATCAATCTT TGATGGTGAG GGTTTTAGAA AGGAAAAATA TAGTAAAATG TGTAATTTGT 60
CTTAATAAAA TCTATCTNTA CATCTAAA 88

SEQ ID NO:3085

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03629

SEQUENCE DESCRIPTION:

GATCTAGATT GGGTGAGGGG GACGGGGATG TNAGGGAGGC AAGTGTGTTN TGTTACTGTG 60
TCAATAANCT GGTTTAAAGT TGTAAAGTGN GAAA 94

SEQ ID NO:3086

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03631

SEQUENCE DESCRIPTION:

GATCTGAATT TCACAAAAAG TTCATGGAGA AATATATTAA ATAGTACAGT TTTATGTGCT 60
TAATTAAAGA CTGTAAAACG TAAAGGAAA 89

SEQ ID NO:3087

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03632

SEQUENCE DESCRIPTION:

GATCATACCA CGGCACTCCA GACTGGGGAC CAAAGTGAGA CCTGTGTTCT AAAANTTAAA 60
ATATTTAGAA TGTTCCTAG CAAA 84

SEQ ID NO:3088

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03633

SEQUENCE DESCRIPTION:

GATCCCAAGG ATGGAGAACA ACTTACCCAG TAGCTAGAAT GTTAATGGCA GAAGAGNAAA 60
CAATAAATCA TATTGACTCA AA 82

SEQ ID NO:3089

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03634

SEQUENCE DESCRIPTION:

GATCTCCAGA TGTGCATTC CCTCTCTTAT TTAAAGTTAT GTTAAGATTA CTAAAACAAT 60
AAAAGCTCCT AAAAAATCAA A 81

SEQ ID NO:3090

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03635

SEQUENCE DESCRIPTION:

GATCCAACCG TGCCTGAAGC TAGAATATCC CCTGGACTTT TCAGTTATGT GAACCAATAA 60
ATACCCTTTT TTGCTTAAA 79

SEQ ID NO:3091

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03636

SEQUENCE DESCRIPTION:

GATCTGNGAN ATATTATGGT AATGTGTGCG GGGCGCCATG AACCGCACCC ATATAACACG 60
GTAAACTTAA TCAGCAAA 78

SEQ ID NO:3092

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03637

SEQUENCE DESCRIPTION:

GATCATGCTG AAAACCACTC AAACGATTAT ATTTTTTACA TTATAAGAAG TAAAATATAT 60
TATTCTGAAT AATGAAA 77

SEQ ID NO:3093

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03638

SEQUENCE DESCRIPTION:

GATCTGTGCA TTGCTCCTTC TGATTTGTGC TAAGTTGTTA AATAAGAGGG ACCCTGAGAA 60
AGGCCTTACT CTAAA 75

SEQ ID NO:3094

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03639

SEQUENCE DESCRIPTION:

GATCACACAG CTAACGAGGC TGCCTCCAGC ATTCCTGAT TTCCTCTGTG GTAATAAAAG 60
CTTTCTGTGC TTAAA 75

SEQ ID NO:3095

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03640

SEQUENCE DESCRIPTION:

GATCAGAACT TACAAACCAA ACTTTTATTC TGAGAACTG GCTGTACAAT ATNTGAAAAG 60
AAAGTGACAT GNAGGAAA 78

SEQ ID NO:3096

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03641

SEQUENCE DESCRIPTION:

GATCTTTTNN AAGTNTTCTG AAAGGAAGTA GACAGTATTA CACCCTGAAT AAATAAGGTG 60
TTGTTTTCCA CAAA 74

SEQ ID NO:3097

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03642

SEQUENCE DESCRIPTION:

GATCTACTTC CCATGCAGAA GAGAAGTCAC ATCTTCAGG GAATCGCAAT GTTGTGGCGT 60
CTGACTTGTA TGTACACATTT GTGTAAAATG GTATATNCTT TAAAATAGTG TTGATAACTG 120
GAATATTGTA TGTATGCTTG GAGATGCTTT GTGTGAACCT AAGACTGTCA CTCAACAGAT 180
GTTGGATTGG GGNAAATCCA AAGCACAAC TCAAANTAAN NTACATTTTT AGGTTTCGAT 240
GCTGCAAANC ANANAANANN ACANNAN 267

SEQ ID NO:3098

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03643

SEQUENCE DESCRIPTION:

GATCATGGTG ATGTACGGGG TGAATTCTCT TGCCGTGTTG CAAATGTGTA AAATAAAGAT 60
TATCTGGCAG AAA 73

SEQ ID NO:3099

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03644

SEQUENCE DESCRIPTION:

GATCCNAGNT CTANCGTCAT ATAATCATTT AATATAATTA AAGTTTAATT GCTGAAATAC 60
TTATAATGAA A 71

SEQ ID NO:3100

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03645

SEQUENCE DESCRIPTION:

GATCATGCAA TTCCTTCAAT TATGATGGAA AGACTTGAAC TTTCTGAAAT AAAACAAAA 60
TACAGCAAA 69

SEQ ID NO:3101

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03646

SEQUENCE DESCRIPTION:

GATCCATTTA TTGCAATTCA TGCTGAATCT AAATTATAAA ATTTAAAATT AAATGCATAT 60
CCTCAAA 67

SEQ ID NO:3102

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03647

SEQUENCE DESCRIPTION:

GATCCGAAAC CTGTAAACA ATAAGATGTG TTCTCGGAAA ATNAAACAAG AGGTATCACA 60
AGAAA 65

SEQ ID NO:3103

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03648

SEQUENCE DESCRIPTION:

GATCATCTCT TCTCCATAAG ATAGTGTGAT AAACACAGTC ATGAATAAAG TTATTTTCCA 60
CAAA 64

SEQ ID NO:3104

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03649

SEQUENCE DESCRIPTION:

GATCGCTCCA ATAAACATAT ATTGTGAAAA TGCATCCACA ATAAATGGAA TTCCTTCCTG 60
CAAA 64

SEQ ID NO:3105

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03650

SEQUENCE DESCRIPTION:

GATCTACCTG TCTGTTGCC ACATGTTTCT AAAC TTCCA ATAAATCACC TTCTACTGAC 60
AAA 63

SEQ ID NO:3106

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03651

SEQUENCE DESCRIPTION:

GATCAGCATC AGGCTGTTAT CAAGTCTGTT GGTGCTAAAA AGTAAAAANAT GAAATGTTCA 60
AAGAGAAA 68

SEQ ID NO:3107

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03652

SEQUENCE DESCRIPTION:

GATCTGTCTG GCTCCNTTGT TTCTTATTAA ATAAAATTCT GTCTTCTATT GTTTCAAA 58

SEQ ID NO:3108

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03653

SEQUENCE DESCRIPTION:

GATCAGCCTT NNTATAATGT TTTTAAATC ATTTCTAAAT AAAACAGAAA TACAGAAA 58

SEQ ID NO:3109

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03654

SEQUENCE DESCRIPTION:

GATCTAGACT TATATGAATA AATNAAATTA CATGCCAAGG GCCCTAAAAA GCAAA 55

SEQ ID NO:3110

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03655

SEQUENCE DESCRIPTION:

GATCAGGGCC GAGCAGAACC GCACTCTTCC CAAATAAAGC TTCCTCCTTG AAA

53

SEQ ID NO:3111

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03659

SEQUENCE DESCRIPTION:

GATCATATTT TTTNATACAG GTATTTCAT TAAATGTTT TTGTACATAG TGAAA

55

SEQ ID NO:3112

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03661

SEQUENCE DESCRIPTION:

GATCCAATCA NTTAAATAAA CCTGTATGTA TATGCATATG TNTACATGCA TATCCCCTCC

60

TGCTAAAACT CATAAA

76

SEQ ID NO:3113

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03679

SEQUENCE DESCRIPTION:

GATCCCTCAG TTTCTTCTTG ATTCAGCAT GTNTCGGGTT CCTAATTAT GGTATGAGTT 60
 AGCAAATTTA ACCATTGTGT TTGTGCCCTA CCCAGGGGAC TCCCCAGTTT CTGACTTGAA 120
 GTAGACTGAG AAGAATCCAC GAGGTGCTAT CTGGCCAGAT TTAAGTAGAT TCTATTTCCT 180
 TGGTTCTCCC TCTCCCTGAG GACCTCTTAT TTNATTGTCC CCTCTTCTAG GTTAATTCTC 240
 CTTTGATTG ACTTTGTTGA GAAGGAGGTT GGACAGTAGA TTAGCAAAGT TCCAAGTGCA 300
 AAATTACAGT GTGTTAGAGT GTGGGGGGAA AATTAGTCTT ATTTTCCCT ACATGGGATA 360
 CAACACTGTG AATTCAATCT TCAACCTGAA GGGCCCTGCA GTTCCTCCTA AAACATNGTT 420
 GTTTGNTTTT CTTTAACCAA GGTTTAAGCT N 451

SEQ ID NO:3114

LENGTH:445

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03680

SEQUENCE DESCRIPTION:

GATCTAAGGA TGACTTGGAC AACTCCNTG GCACTGAAGA GTCTGAACAN TGGCCTGTNA 60
 TTGGTCCATT CCAGGACCTT CATTTGCATA AGGTATCAAA CCACANCAGC CTCTGATTGG 120
 CCATGGGCAG ACCTGCACTN TGGCCAATNA TTGGTTCATT CCAGGACATT CATTGCATA 180
 AGGAGTCAAA CCACANCAGT CTTGGATTGG CTGTGAGCCA ATTCACCTCA GTCTCTAATT 240

GGCNNNGAGT CAGTCTTTCA TTTACATAGG GTGTAACCAT CAAGAAACCT CTACAGGGTA 300
 CTTAAGCCCC AGAAGATTTT NCTACCAGGG CTCTTGAGCN ACTTGCTCTA GCCCACTCCC 360
 ACCCTGTGGA ATGTNCTTTC ANCTTTTGNT TGGTTTCAAG TNCCTTGGTG CTTCCAATAA 420
 NTNCCACTTC CTTCAACCACC CNA AAA 445

SEQ ID NO:3115

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03681

SEQUENCE DESCRIPTION:

GATCGGCGCC ACTGCTGTCC TGCTGGCTTC NNCTGCGCAG CANGGGGTAC CAAGTGTTTN 60
 CCCAGGGAGG CCCCgcgctg GGACGCCCT TTAAGGGACC CAGCCTTGAN ACAGCTGCTG 120
 TAAGGGACAG TACTGAAGAC TCTGCAGCCC TCGGNACCCC ACTCGGAGGG TGCCCTCTGC 180
 TCAGGCCTCC CTAGCACCTC CCCCTAACCA AATTNTCCCT GGACCCCAT CTNAGCTCCC 240
 CATCACCATG GGAGGTGGGG CCTCAATCTA AGGCCTTCCC TGTAAGAAGG GGGTTGTGGC 300
 AAAAGCCACA TTACAAGCTG CCATCCCCTC CCCGTTTNA TGGACCCTGT GGCCAGGTGC 360
 TTTTCCCTAT CCACAGGGGT GTTTTGTGTG TGTGCGCGTG GTGCGGTTTN AATAAANGTT 420
 TGTACAACTT NTGTTTAAA 439

SEQ ID NO:3116

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03682

SEQUENCE DESCRIPTION:

GATCTTGAAG TGCTTTTAT ACAGCTCTCT AATAATTACA AATATCCGAA AGTCATTTCT 60
 TGGAACACAA GTGGAGTATG NNAAATTNNN TATGAATTTT TCAGATTATC TAAGCTTGCA 120
 GGTTTTATAA TTAGAAGATA ATGTGAGANT TAATGGGGTT TATATTTACA TTATCTCTCA 180
 ACTATGTAGC NCATATTACT CACCCTATGA GTGAATCTGG AATTGCTTTT CATGTGAAAT 240
 CATTGTGGTC TATGAGTTA CAATACTGCA AACTGTGTTA TTTTATCTAA TCCATTGCTT 300
 AATGAGTGTG TTTTCCATG ATTGAATATA CCGTGGTTCA TATGTTAGCA TGGCAGCATT 360
 TTCAGNTAGC TTTTGGTTT GTTGGGAAGT TGGGGTTTTG GGGGGAGGGG GGAGTNTTNG 420
 TACGTTGCCT N 431

SEQ ID NO:3117

LENGTH:427

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03683

SEQUENCE DESCRIPTION:

GATCAAAGTA TTATATGCTG TGTGCTTTTA AGGTGTTTGT AAGTACTGAA AAAGGCAAAA 60
 ATNCTTTCTA CATTGACATT CATTCCATT TNACTGGGCA CCTATGAATG TATGCTGTGT 120
 GCTAGAAATA GACTAAACA TATTCCTATA GCATGTNAGT GTGTTTGCAT GTTTGCTGAA 180
 AATCCTTTGT GTATAANCCA GTTTGTAAGG TTCTCTGGGT TAGGTAGGGA CTCTGCAGTT 240

TCTNCCTGTC NAAATCTCTC CTACCAAGAT GGTGTTCCAC TGTCCAGCCC AGCATGAGTA 300
 GCAGGTAGNG CACAGCTTTA CTGGCTGGTT TGTATGCTTT GGTTTTAGGT GCAATTGTTG 360
 TGGGTNGATT TACTTTNTCC AGAAAACCAT NGTATTGNNN ATGTCCTNGG ACCGGTGGAA 420
 AATAGGN 427

SEQ ID NO:3118

LENGTH:423

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03684

SEQUENCE DESCRIPTION:

GATCAAAAAT ATTAGAAAAA ATAAAANTAA TACAAATAAA AATACAGTAT AACAGTTATT 60
 TAAATAGCAT TTACATTGCA TTAGGTATTA GTCTAGGGAT AAAGTATACA GGCGGATGTN 120
 CGTTGGTTAT ATACAAATAT GTCATTTTAT GNAANNGACT TGAGTATACT TGGNTTTTNG 180
 GTATCTNTGG GTTGGGGGGA CGGTCCAGGA ACCAATACCC CATGGATACC AAGGGACAAC 240
 TGTACTTATT TNCCNTTATT GTCATTGCAA GCTTCTTATG GAAACTTTAT AGGGAATGAN 300
 AATATACATG TTAAGGANGA TTAACATTA GATAGTAGAT GGTTTGTTGC ATGCTAGAAC 360
 TGTTAGTATT GTTGATTCAA TTAATTGGT TTCATGAAAA ANTAAACGGT AANTATCTTT 420
 AAA 423

SEQ ID NO:3119

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03685

SEQUENCE DESCRIPTION:

GATCGAGACC ATCTGGCCA ACATGGTGAA AACTCATCTT TACTAAAATA CAAAAAATTA 60
 GCCACGCNTG GTGGCGCAGC TTGTGGTCCC AGCTACTCGG GAGGCTGAGG CAGTGGAGTC 120
 ACTTGAACCC GGGAGGCAGA GGTGTCAGTG AGCCGAGATT GCACCACTGT ACTCCAGCCT 180
 GGCGACAGAG CAAGATTCTN TNTGCCCCC CACCAAAAAA AAAGANTGAA AACTGATAT 240
 TTGCTACAAC ATGNTATAC CTCAAAGCA TCCTGTTAAG TGAAAACAGG GAGACACAGT 300
 CACGTACTAT ATGATTGCNC TTACGTGAAA TATCCACANN GACGNNTCCA TGGNGACCAG 360
 GCAGATTGCC GNTTGCCAGA GGCCAAGGGT TAGGGAAAAA TTGGTGAGGG ACCCTGCGTG 420
 N 421

SEQ ID NO:3120

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03686

SEQUENCE DESCRIPTION:

GATCTATGAC TTCTCAAAGC CGGGTCATGA ATGTCCATAA AATGCTAGGC ATTCCTATTT 60
 CCAATATTTT NATGGTTGGA AATAATGCTT CANATTGGA ACTGGACCCC ATGAAGGATA 120
 TTCTCATCCT CTCTGCACTG AGGCAGATGC TGCGGGCTGC AGATGATTTT TTAGAAGATT 180
 TGCTCTNGA GGAACCTGGT GCAATTGAGA GAGCGTTACA GCCCTGCATT TGAGATAAGT 240

TGCCTTGATT CTGACATTG GNCCAGCCTG TACTGGTGTG CCGCAATGAG AGTCAATCTC 300
 TATTGACAGC CTGNTTCAGA TTTNNCTTTN GTNCGTTTTN CNTTCTGTCC TTGGACCAGT 360
 CATATCTCAN GTTCCAAAGG CCANAACCTT GAGGAGCGGT NNGGCTAAGN 410

SEQ ID NO:3121

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03688

SEQUENCE DESCRIPTION:

GATCTGAGGA CCCTGTA CTG GTTACTCCTG TACACGTTCA CAATTTTCNT GTAAATNTAT 60
 TAATATACTG AGCAGTCCAG GAGCAGCCAT TAGGCAAACA CCACTCCTTG CTTCCCTTCAT 120
 GTGACCTATC ACTGAGCTCA CCAGCTGAGG TCAATNACAT TCTTCCCAAC CTGGAGAACA 180
 GAATTTGGGT CTGCTCAGAG GCATGATGTG AAACATGTCT GGGATAAAAG CTTTGTCTA 240
 TTGACAGCAA ACCTTTTTGT GTTAAGGGGT AGGGGAAGAG CANGTGAAGG ATGCAGATTA 300
 ATTTCTATTT AGGANTATAC TTTTNTATAT NGTTTGAAAT TTTGGNCTTG TAAAAATATT 360
 CATCCATNTT TTNACCAANA NAATTCCTT GTGGACNGGT TN 402

SEQ ID NO:3122

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03689

SEQUENCE DESCRIPTION:

GATCAGTTTG ATTCTGTAAT GAGCACAGCA CCTAATATTT TGAGGAGCTC TGTTTTGAGG 60
 ACCAATGCTT AAGGTGGACT TTGTTCTGTA ACAATATCCC AATAGATTG TTGACTTGAG 120
 GTCTGGTTTG GTTTTGT TTTTGT TTTTGT TTTTGT TTTTGT TTTTGT TTTTGT TTTTGT 180
 ATTCTAATGT TGA AAAA CTG CACAAATTTT TATGGGACAA AGCCTAGAAA AGAGAAATGT 240
 AGTTTGAATC ATAATCTAAA TCATCGTATG ATAGANGAGG GAAAGTTTTG GTGCCATAAT 300
 TTCTCCTTTC ACTGGTGTG GGNCTTAAAT CAAGTTGAAA TGTATTTCTG TACCACAATT 360
 TTANGGCTTT CAATAAAAAG TTTTAAATNG TCTAGGTGAC CATTCCAAA 409

SEQ ID NO:3123

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03690

SEQUENCE DESCRIPTION:

GATCAACATC CACAGCGAGA CCTCCGTGCC CGACCATGTC GTCTGGTCCC TGTTCAACAC 60
 CCTCTTCTTG AACTGGTGCT GTCTGGGCTT CATAGCATTG GCCTACTCCG TGAAGTCTAG 120
 GGACAGGAAG ATGGTTGGCG ACGTGACCGG GGCCCAGGCC TATGCCTCCA CCGCCAAGTG 180
 CCTGAACATC TGGGCCCTGA TTCTGGGCAT CCTCATGACC ATTGGATTCA TCCTGTTACT 240
 GGTATTGGG TCTGTGACAG TCTACCATAT TATGTTACAG ATAATACAGG AAAAACGGGG 300
 TTACTAGTAG CNGNCCATAG CCTGCAACCT TTTGNACTTC ACTTGTGCAA TGCTTGGCCC 360
 TGNACGNTGG GGCTGTTGCC CTTGCCCCNT TTGGTCCTGN 400

SEQ ID NO:3124

LENGTH:400

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03691

SEQUENCE DESCRIPTION:

GATCCTTCCT ACTTTGCTTC TNTCCACCCA TGACCTTTTT NACTGTGGCC ATCAGGACTT 60
 TCCCTGACAG CTGTGTAATC TTAGGCTAAG AGATGTGACT ACAGCCTGCC CCTGACTGTG 120
 TTGTCCCAGG GCTGATGNTG TACAGGTACA GGCTGGAGAT TTNACATAG GTTAGATTCT 180
 CATTACAGGG GNNGGTTAGC TTTAAGCACC CTAGAGGACT AGGGTAATCT GACTTCTCAC 240
 TTCCTAAGTT CCCTTCTATA TCCTCAAGGT AGAAATGTCT ATGTTTTCTA CTCCAATTCA 300
 TAAATCTATT CATAAGTCTT TTGGTACAAG TTTACCATGN TAAAAAGGAA ATGTGATTTT 360
 GGTCTTCCCC NTCTTTTGCA CTTTTTGAA ATANAGGGTN 400

SEQ ID NO:3125

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03693

SEQUENCE DESCRIPTION:

GATCCTNAAT TTNAAAATTT NACACCATCA TAAATNAACA AAGGTAGGAA GGAGTTTGGC 60
 TTCAATAGCT TACAGTAAAA GGAGTAAAGG AGTTCAGCCT CAAAACGATA TTGTTGACCT 120
 GTNATGTTAT GAAAAATAAT CCAGTGTTTA TACTTAACGG ATGCCATCCC TTATNATTTA 180
 CTATTTTCTT AGTCTAACTA AACAACTTTT ATTAATAATA GCAATGATAT TTGACATGGG 240
 CCTAAGAAAT ATATAGTTAG CTAACAATAT TGTCAGTTAG AGGGATTCTT TTTCTAAATT 300
 AAGTACAGAT TTCTTACCA AACTCCAGGN TAACAGAAAN GGGGCCATAA AATTGGNCC 360
 ATAGTTTCTG GGTAAATAA NTGGTAATTT TAAANTN 397

SEQ ID NO:3126

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03694

SEQUENCE DESCRIPTION:

GATCAAGTAA CATGTTGCAT GTGGCTTACT CTGGATATAT CTAAGCCNT CTGCACATCT 60
 AAACCTTAGAT GGAGTTGGTC AAATNAGGGA ACATCTGGNT TATGCCTTTT TNAAAGTAGT 120
 TTTNTTTAGG AACTGTCAGC ATGTNGTNGT TGAAGTGTGG AGTTGTAAC NTGCGTGGAC 180
 TATGGACAGT CAACAATATG TACTTAAAAG TTGCACTATT GCAAAACGGG TGTATTATCC 240
 AGGTACTCGT ACACTATTTT TTNGTACTGC TGGTCCTGTA CCAGAAACAT TTNCTTTNAT 300
 NGTNACTNGC TTTTNAAACT TTGTTTAGCC ACTTAAAATC TGCTTATGGC ACAATTNGCC 360
 TCAAANTCCC ATTCCANGT NGGTAATATT GN 392

SEQ ID NO:3127

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03695

SEQUENCE DESCRIPTION:

```
GATCTAAGGA TGA CT TGGAC A CACTCCCTG GCA CTGAAGA GTCTGAACAC TGGCCTGTNA 60
TTGGTCCATT CCAGGACCTT CATTGCATA AGGTATCAA CCACATCAGC CTCTGATTGG 120
CCATGGGCCA GACCTGCACT CTGGCCAATN ATTGGTTCAT TCCAGGACAT TCATTTGCAT 180
AAGNGTCAA ACCACAGCAG TCTTGGATTG GCTGTGAGCC AATTCACCTC AGTNTCTAAT 240
TGGCTGTGAG TCAGTCTTTC ATTTACATAG GGTGTAACCA TCAGGAANCC TCTACAGGGT 300
ACTTAAGCCC CAGGATGATT TTGGCTTACC CGGGNGTTTC TTGNGGCCNC TTTGGTNTTG 360
GCCNAGTTNC NCACCTTTGT GGAATTGGT N 391
```

SEQ ID NO:3128

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03696

SEQUENCE DESCRIPTION:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC GATTCTCCTN CCTCAGCCTC 60
CTGAGTATCT GGGATTACAG GCGTGACCA CCATGCCTGG CTAAGTTTGG TGTTTTTTTT 120
AGTAGAGATG GGTTCACCTC ATATTGGTCA GGCTGGTCTC GAACTCCTGA CCTTGTGATA 180
CACCTGGCCT CAGCCTCCCA AAGGGNNGGT GCCACCGCGC CTGGCCCAT TTTCTTTTTT 240
TTGACCCATA CTTAATGTTG CAGAAACTAT TCTTGTGATA ACATTATCTC TCATGTACAG 300
TAATTATATG TAAATTAATT GAAGCAAATN TGGGAACTT TACAATAGAA ATAAAGNTAG 360
GCAGCCAGCG TNTGTTTCCA NTTNTNAAA 389
```

SEQ ID NO:3129

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03697

SEQUENCE DESCRIPTION:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC ATTTCTCCTG TCTCGGCCTC 60
CCGAGTAGCT GGGATTACAG GCGTGAGCAC CATGCCAGC CAGAAGTACT ATNATTCTT 120
ATAACTACAT ATGAATCTAA AATTATCACA AAAGGAACT TCTTTTAAGA AAAAGAAAAG 180
AATCAGACA TAAATATACA GCATGGCAA ACTACATCTA AAACAAGTAT TATAGGTCTC 240
ATGGTGAAA ANTTGGACCC ACAAGAAAAG TTGTTAATTA TCTCTGATAT TCTGAACCAT 300
TGNTATCTGC AAAATGATTA CTAGGTATGT GCAATGANGG CTATTGATGT TACCCTGTAT 360
ATCTGCACAC TGTGTTCCAN 380
```

SEQ ID NO:3130

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03698

SEQUENCE DESCRIPTION:

GATCTGCTAG TGCTGTAATA TTGTAAATAC TGGACTCAGG AACTTTTGTT AGGAAAAAAT 60
 TGAAAGAACT TAAGTCTCGA ATGTAATTGG AATCTTCACC TCAGAGTGGA GTNNNNNCTG 120
 CTATAGCCTA AGCGGCTGTT TACTGCTTTT CATTAGCAGT TGCTCACATG TCTTTGGGTG 180
 GGGGNGNGAN GANGAATTGG CCATCTTAAA AAGCGGGTAA AAAACCTGGG TTAGGGTGTG 240
 TGTTACCTT CAAAATGTTT TATTTAACAA CTGGGTCATG TGCATCTGGT GTAGGAAGTT 300
 TTTTCTACCA TAAGTGACAC CAATAAATGT TTGTTATTTA CACTAGTCTA AA 352

SEQ ID NO:3131

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03699

SEQUENCE DESCRIPTION:

GATCGTGGGT TGCCGAGAGG ACCTGAGCGC TGGGGCTCTG CTGAATGGAN CCGGGTCCCT 60
 CAGGCCGTGG ACGCCCTCGG AAGGGGGGTG ACTGTGGCTT GTNTCTGGAC AGGAATGTGT 120
 CATTCCCAC ATCTTCTAGA GGGCTGCCAG CTGGGAAGAC AGTTATNAGG GCAAGCTGTG 180
 CTCTGAGTTT CGGGTTCTGC TCCTACAAAG AACGTGCGGT GCTGCGGGCN AGGGCCCCGG 240
 CACGGACAAG GGCCACTGCA GAGTGTGTTT CTNCTCGTNA GCTGCCCTGG GCANGGAATG 300
 GGCTGGNTNA TGCAGTTGGA TGCACATCTN ATTCTGTCAT GAATGTCCAG TAAAAAATCT 360
 GAAATTGGTT GCAAA 375

SEQ ID NO:3132

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03701

SEQUENCE DESCRIPTION:

GATCCAACCC AAGGGCAAGG GCATCCTGGG AAATACCATC AAGTGGAAC TACCAAGTN 60
 CCTCATNGAC AAGAACGGCT GCGTGGTGAA GCGCTACGGA CCCATGGAGG AGCCCTGGT 120
 GATAGAGAAG NACCTGCCCC ACTATTCTA GCTCCACAAG TGTGTGNCC CGCCGAGCC 180
 CCTGCCCACG CCCTGGAGC CTTCCACCGG CACTCATNAC GGCCTGCCTG CAAACCTGCT 240
 GGTGGGGCAG ACCCGAAAAT CCAGCGTGCA CCCC GCCGGA GGAAGGTCCC ATGGCCTGCT 300
 GGGNTTGGCT CGGCGCNCCC ACCCTGGCT ACCTTGTGGG AATAAACAGA CAAATTAGCC 360
 TGCTGGA 369

SEQ ID NO:3133

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03702

SEQUENCE DESCRIPTION:

GATCTTGGGA AAATTGCGGA GTGTACATTT ACAAAGATGC GTTCAAATAG TGCTCTAAGA 60
 GTTTTGTTC GTGGCTCACT TCGGCTAAAA TGCAGAAATG NATGCTGTCA GCGTTGGTAT 120
 TTCACATTCA ATGGAGCTGA ATGTTCAAGG CCTCTTCCCA TTGAAGCTAT AATTTATTG 180

GACCAAGGAA GCCCTGAAAT GAATTCAACA ATTAATATTC ATCGCACTTC TTCTGTGGAA 240
 GGACTTTGTG AAGGAATTGG TGCTGGATTA GTGGATGTTG CTATCTGGGT TGGTACTTGT 300
 TCAGATTACC CAAAAGGAGA TGCTTCTACT GGATGGAATT CAGTTTCTCG CATCATTATT 360
 TGAAGAN 367

SEQ ID NO:3134

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03703

SEQUENCE DESCRIPTION:

GATCAAGAAA TGCATTGACA TTCTAATTGA GAAAGAATAT TTGGAGCGAG TGGATGGTGA 60
 AAAGGACACC TACAGTTACT TGGCTTAACC CTTCTGGAAG GGTCTGACTG TGTGACCCGC 120
 AGCAAATAGT TCATGTTGGA AAGAATGAAA ACAACTCAAG TTCATAGCAG CCAGCCTGCC 180
 GCCATTGGAC CTCCTTTTA AAAACTGAGA CCAAGACTCC CATCAGCTGG TCTCGGGTTT 240
 ACATCGGAAC TGCTCAGGAT TGATACATTT NAAGTCTGTA AATACGGACA CCAACGCCAT 300
 TTACCCTAAT TTNANGAACA GCGGGGNCTG TCCNTCCGGT GCCGAGGGGC TTGCATTGCT 360
 TACCGN 366

SEQ ID NO:3135

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03704

SEQUENCE DESCRIPTION:

GATCCCTGAT TAAGCTGATG ACTAGACCTA CAATTAATTT TCCTGCAGTA TATGAAGTAT 60
 TGTAACAGAG TATTAAAAGA TATGTAATAT TTNATTGATA AATCTATCCT TTAAGGAA 120
 TACGTTTTAG GATGTCATCA TTTTGATGTG AATCATGTAA ATGTTGATAA TATGCTGTTT 180
 ATTATACATT TAGTGTTC AAGAGATTCAC TTAATTGCCT TTTTGCCAC GTATATTATG 240
 TAGTCTATT GCAACTGTTT TTAATAAANT GNCATTAAAG GACTAGTTTA TGTNGGGAAC 300
 CATTAGTGGN TGTTATTNGN CTCCCCCCT NTNTTTTGG GGTGTTAGCG CACCTGCTTT 360
 GCTN 364

SEQ ID NO:3136

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03705

SEQUENCE DESCRIPTION:

GATCCTGACC AGCAAGCCCC CCCCCAGCCC CCCTTCCAAG TGAATCCGTG NCTTGAGTGT 60
 GTCTGCGTGT TTACACCCGT CCCTCTGCTG GCCGCCCCCG TCGAGCGGC ACCCCTGCC 120
 TGCCCTCCAC AGAATTGGGT TCCAAGGGCT GTTCCAGACA ACTGCCAAG TCACTGAGGG 180
 CCCTGCCCA GCGGNCCTGG CCCCAGGCTC TATTAACCTA AAATGTAGCT CCCTAGCGNT 240
 AACCTAGGAA CCGGCGTTGN CTGCTTGGGG GGTACGCCC TCATGNCCT GTTCCCAGGG 300
 CCGGGGGCCT TNAAGCGGT NGAACAATTC NTTGGCTTTT TTTANANTG TTTAATNGGA 360

ATN

363

SEQ ID NO:3137

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03707

SEQUENCE DESCRIPTION:

GATCTGGTGG TCAGCCCTAG GATAAAAAGC CAGGGCTGGA GAACAAGAAA GGGCCAGGAG 60
ATGGAATTCC TTCAGGCCGG CACCCACACC CTAGGACATG TAAGCCCTCA TGTCCAAGGG 120
AGCCTCATGC AGATAGTAGG AAATCAGGTC TGGAAATTTA AAANTAAAAG GCATGAGACT 180
AAGGCTATCT GCTTCNTTA TGCCCTGACT GGAGAGGGGA GGGTGGAGAG GCANGGCCCA 240
CAGTGGGCAT CCCNGCTNGG TCTTNGGATG NCTGCNGTGN GGTGAATTCC CGGGAAGTNG 300
TTTTGGCACA ANGNTNNTTT TTGGCACTTT GTTTTTTTTG GTATTAAAG GTTTTGCTN 359

SEQ ID NO:3138

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03708

SEQUENCE DESCRIPTION:

GATCAGGGGA TAGTGAAGTT TACCAACTGG GTGATGTCAG TCAAAAGACA ACATGGCACA 60
GAATATCAGT ATTCGGGCCA GGCCTCAGAG ACGTGGCATA TCAATATGTG AAAAAGGGGT 120
CTCGAATTTA TTTGGAAGGG AAAATAGACT ATGGTGAATA CATGGATAAA AATAATGTGA 180
GGCGACAAGC AACAACAATC ATAGCTGATA ATATTATATT TCTGAGTGAC CAGACGNAAG 240
AGAAGGAGTA GAAAGGATGA TTCTTCTTTG GCCATCATTT GGTACAGTCT CATTTCCAAG 300
TCATGTATAA TCTTTATGGC TTCCAGGGAC ANGGNTTTAA AATACTCTTT TACGTAAA 358

SEQ ID NO:3139

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03709

SEQUENCE DESCRIPTION:

GATCTCAGTC TCTCTGTCTC TCTTCTCTC CTTTCTCTT TGGTGATCA AATATTNAT 60
TGACAAAGTA AGGGCCTTGA TTAGGACCAA ATTCTCGTGT GTTGCTATGG TCTTTATTTA 120
GGACAACAAAT TAACAATGCA GTGGCCCATC CTTGCTCACTC TACACATATG ACTATACGGG 180
ACATATGTAA TATATAAATA TATATATAAA NCATTCCCCT CTGTCCCCTT GGCTTCGGAT 240
GGAGGCCTTT CTGTTGAGCT GAAATGCACC TGCAGCTGGG TGCTGCCAGC AGCTTGCAAG 300
CCCCAGCCCT GTTCCANTCA ATGCAGTTGN CAATAANTGG NATGAGTATC GTCAAA 356

SEQ ID NO:3140

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03710

SEQUENCE DESCRIPTION:

GATCTTCAGC ATGTGCGGCC TCATGCTTAA GCTGAAGTGG TGTGCTTGGG TCGCTGTCTA 60
 CTGCTCCTTC ATCAGCTTTG CCAACTCTCG GAGCTCGGAG GACACGAAGC AAATAATGAG 120
 TAGCTTCATG CTGTCCATCT CTGCCGTGGT GATGTCCTAT CTGCAGAATC CTCAGCCCAT 180
 GACGCCCCCA TGGTGATACC AGCCTAGAAG GGTCACATTT TGGACCCTGT CTATCCACTA 240
 GGCCTGGGCT TTGGCTGCTA AACCTGCTGC CTTCAGCTGC CATCCTGGAC TTCCCTGAAT 300
 NAGGCCGTCT CGGTGCCCCC AGCTGGGATA GAGGGAACCT GGGCCCTTTT NCTN 354

SEQ ID NO:3141

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03711

SEQUENCE DESCRIPTION:

GATCTTGATG AGGGCCAACT TTCCCTCTTC CACAAGGGAT TAATCTTAGA ACTATAGCCA 60
 ATTTATTATA AGTACTATTT AGCTACTCTG TGCTCCACAC ATCACGGAGT AATATCTTCA 120
 AACTATGAGG TTTAGTAACA CTTGACTGCT GAGGTTTATT TCCTCAGCTC TGATGCTTCC 180
 TGGGTGAAGA TGTAAGTNAT TAAATTAAC CAAATTTTAA AGCTAACACT TCATTCCATC 240
 TAGACCAGGT AGCTCGTCAT TTGTACGTCT GATAGGTGCT TCAACATCTC AGAATTGGCT 300
 TTATTTTCA TGCATTGCAT ATTGTACTCN TTTGTAATAT TGGGNATGTA AN 352

SEQ ID NO:3142

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03712

SEQUENCE DESCRIPTION:

GATCTGACCA CTGTTCTCCA GCAGGCCTCT GCTGCAGCTT TTNCTCTCAG TGTTCTGGCC 60
 CTCTCCTCTC TTGAAAGTTC TCTGCTTACT TTGGTTTTCC CTCTGCTTGT AAAACATTGA 120
 GTCCCTCCC TGCCCTGGTT AATTGACTCA CACCAGCTGT GCGATGCCCG CTTTACAAT 180
 TAAAGGAAAA CTGTTTTGTT CAGTGTCAAC TTGTCAGCAA CACTGTGTCC CTTCGCCCA 240
 CCGTTCTTCT CTGCTGCATT TGGACATGAG CCAAATTTGA ACCCAATCAA ATATAACGTG 300
 TCTGACACTG ATTTTGNTT TACTCAANTA AANGTATAGA CTACAGAAA 349

SEQ ID NO:3143

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03713

SEQUENCE DESCRIPTION:

GATCTGTTCC AGCTGCAGGT GAACACCCTA CGACGTTATA AACGACACTA ACAAGTTGCA 60
 GACCAGACCA GGCTTCAATA AGGCCAGTT AGCAGAAACT GTGAGTCGAC ACTTCAGGAA 120
 CATACCTGTG AATGAAAAAG AGACCTTGC TACTTTCATC TACATGGTGA AGAGTAACAA 180
 GAGTAGACTG GACCAGAAAT CGGAGGGNGG CAAGCAGCTT NAGTGAGGAT GAAGCACATC 240

TTAAAGGAAT GAAGTGATAA TGCTTGATGC ACAGGTNGAT ATCTACTACA TTAAAGCCCA 300
TAAAGACTGT TTAAATATTA TTGTAAATAA AAAAGTTTGT ATGATTGN 348

SEQ ID NO:3144

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03714

SEQUENCE DESCRIPTION:

GATCCAGATG CAGAGGCCAG GATGTGGGCC CAGCCCTGTG CCAGGAGGCT NGCTGGAATA 60
AAGGGATGGG CAGGCTGGCA TGGGGGCAGC CGCTGCCCCT GCCTNNNTGT TGCTGTGTAT 120
TCCTGCCGGC CAGGGGCCAC TGCCAGGACC ACGCCTCCCT TTNATATCC CGATTCTTAA 180
GTTCTGCTAT TGTGTATTG TGGTGGAGAA AAAAGAACCG CGTGGCTGTT TTNAACTGC 240
CTGGAACCTA AGACCCTGAA TTCTTTTCCC CCCCAGGGG AAAATCTATA TGGAAANCAT 300
TTATTTTAAA ATACAGGATG AAGTGAATTA AAAGATTTTA AATGCAAA 348

SEQ ID NO:3145

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03715

SEQUENCE DESCRIPTION:

GATCACACCT GAGCTTATGC TAAAGGTGG GATGACTCAG AGCTGGGGCT GGTACCAGA 60
CAGACTGACC ATGTGATTAG AGGTTTGAGG CTTTGAGTCA GCCTGACCTA TGGGGCGGGG 120
GACTGGAGGC TGAGTTTAAAT CATCTGGCCA GTGCTTTAAT CAGTACATCA TGAAACCTA 180
ATAAAACTC TGGACACTAA AGCTCAGCAT AGCTTCCTGG GTGGTGAAGC TGTGGCTATG 240
CCGGCAGGGC AGTGTGCCCT AATTCCACGA AGAGGGGGCA TGGGAGCACT GTGCTCAAGA 300
CCCTTCCAGA CCTTCCCTG TGTCTTCCTT GGCTTGTGGA GCTGATTGT ATCCTTTATA 360
ATAAACCTAA TCATAAGGN 379

SEQ ID NO:3146

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03716

SEQUENCE DESCRIPTION:

GATCTGACCT GTGACAAGTC TGTACTATCC ACTATGTAAA TGGCTCACAA GTCAATTGCA 60
AACAACTGA ATGTACAAAT CTTAGTGCTG GTGCTGAAAT CTCTTCAGAA TAGTNATCAT 120
GATTTAAAAG TTTGTTTTAA AATTTGCAAG CATCAAGTGT CAATCAAAAC TGAAGATGAA 180
ACACTAATGA ATGTTGAATT CTCATGCTTT TAGGTGTAAT TCCTTTTATG AATTTTCAGT 240
TTTCTGCTAT TTTTACCGTA ACTATTTCTG TTAANTTGG TTTTATTAN GTTTCCTACA 300
TGCTAACTTC GTTTGTGCGN TTGANTAAAN TTGCCGGTAT ATATNTGGTG GCCTTGTTTG 360
TGACACTTTG N 371

SEQ ID NO:3147

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03717

SEQUENCE DESCRIPTION:

GATCACAGGC AAACCCATCA AGCTGACTCA GGTGGAACAC GAAGCTGGCA NNTAAGTGGA 60
 ACATGGATGG GCGGGAACC ACCCCAGCC CAGGGCTGCA GCCTNNCCCA CCTNACCTTC 120
 CCGCTGGACT ATNACCTTAA CCAGCCTTN ATCTTCGTAC TGAGGGACAC AGACACAGGG 180
 GCCCTTCTTT TCATTGGCAA GATTCTGGAC CCCAGGGGCC CCTAATATCC CAGTTTAATA 240
 TTCCAATACC CTAGAAGAAA ACCCGAGGGA CAGCAGATTC CACAGGACAC GAAGGCTTGC 300
 CCCTGTAAGG TTTCAATGCA TACANTAAAA GAGCTTTATC CCTAAA 346

SEQ ID NO:3148

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03718

SEQUENCE DESCRIPTION:

GATCTNCTGC CGAGTGAATG GGGAAAGTNT CCAGAGCGGC AACACCAAAT AGATGGTATT 60
 CAAGACAGAG GACCTGATAG CCTGGGTCTC CCAGTTNTN ACCTTNACC CAGGGGATGT 120
 NATCCTAACT GGGACCCCC CAGGTGTCGG TGTATTCAGG AAACCTCCTG TTTTNTCAA 180
 GAAGGGGGAT GAAGTCCAGT GTGAGATTGA NGAAGTAGGT GTNATCATCA ACAAGGTGGT 240
 GTGATGGCTC CTGCACAGGC CCTGCACATA GGTGAGGGC ATCTGCTCCC ACTNAGCCTA 300
 GCCCAGGGAA AGGCCANTG ACAGGNTGTG GACAGGTTGC CAGN 344

SEQ ID NO:3149

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03719

SEQUENCE DESCRIPTION:

GATCTTTGAA GTCTATTTAA ATATTCATTC CATTACATCT AGACTCACCN AGAACTACAT 60
 GTTATGATGT TAAGTTGAAG TTGAAACATG ATGTTTGGCA TTAAATTTAA GATATGCAA 120
 TTTATGTAGA GAAAATAAAT GTTATATACC CTATAATCTT TCACCTAATT AGTATTTAAT 180
 TATATGGATT TGNNTTATAT TATAAAAGAT GTTTTGATTT TGTCTNTNGA TATTGNCAA 240
 ATTGTTTGGG TATNCTTATG TTCTCAAGTC TGTATCTGCC TCCCCTGCCT TATNTCTNAT 300
 GTTTGGCCAC AGTTAACCCA TTGTGCTTCT TTGTAATCAA N 341

SEQ ID NO:3150

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03720

SEQUENCE DESCRIPTION:

GATCTNATCA GTCCTAAGCG GGTGATGGGG CAACACGGTT AGCGGGGAGA GCACGGGGTA 60

GCCGGAGAAG GGCCTCTGGA GCAGGTCTGG AGGGGCCATG GGGCAGTCCT GGGTGTGGGG 120
 ACACAGTCGG GTTGACCCAG GGCTGTCTCC CTCCANAGCC TCCCTCCGGA CAATAAGTCC 180
 CCCCTCTTGT NTCCCACCCT NAGATTGGGC ATGGGGTGCG GTGTGGGGGG CATGTNCTGC 240
 CTGTTGTNAT GGGTTTTTTT TCGGGGGGGG NTTGCTTTTT TNTGGGGTCT TTGAGCTCCA 300
 AAAAATAAAC ACTTCCTTTN AGGGAGAGCA CACCTTAAA 339

SEQ ID NO:3151

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03721

SEQUENCE DESCRIPTION:

GATCCTCTCC CTGGGATAAG CACTCCCAGC CCCGTTTATC AGAAACACAG GCAAGGAAAT 60
 TGGAAGTCC ACCCAGCCCA GCATGATGGC TCAATTGGTT GGTTCGTTG TNAGTTGTCT 120
 CTTNGTTTTG TTAAGNNTTT TAATAAAGTA CGTTTTGCAT AATTGCCTTT AAATGGTTTG 180
 TAATATTTGT AACGGTTTTA GCAGCCTATA ACTTTTCAGC TGGTGCTTTT ACTAGGGNA 240
 AAAACAATT TGTAATACA GNACATTGT TAAAAGGCAT AACCNTAGAA CATAGCTTCC 300
 TGTTTGTGG ATTTGGTTTC CTNTATATTC AAAGTAN 337

SEQ ID NO:3152

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03722

SEQUENCE DESCRIPTION:

GATCAGAGGC AGACAATGAC GAGTGAAGAT GGTTGTAAAG CCCTCTTCAT TCCTGGAGGA 60
 GCCTGCATCT AATCTNTNAG GCCCTCTTTC TCTGTGGGTC TCATGAACAG CAGTGGGGAC 120
 CATTGAGNAC TTGAATGGCC TGTTTGNTA TGGGCTTGCA AAGGACAAGC AGAGTTCACA 180
 GAGCTCAGGA TAGAAACATC AGAGCCTCCT CCACGGGCTT CAGTGNAACT CCGATGAACT 240
 GTACCTGAGG GAATTTTTTT NTAATCAAC CCCTTGTTG GATGAATACA GGACCACAAA 300
 ANTTNGTNTA CGTTTGAAAA AAAANAANNT NTNNTN 336

SEQ ID NO:3153

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03723

SEQUENCE DESCRIPTION:

GATCTGCATT CCGACTGCCT ATNAACGGGT GTGGGGGCCG GGGGCTGGAN TTGCTGAAGT 60
 NTTCACTTG CACTCGGAGC TCCTTNATA CCTCAAAGCT GGCTGTNAGG TGGCAGCTCA 120
 CACCCAGACT CACTGGCCAC ACCTCAGCAG GGGGGGAGTC GAGTGTCACT NTCTTCTGT 180
 GAAGGCTTTT TTTTCCCTTT GGCTGGGAA TTTTCCCAT TTTAATGAAG GGGTTTTAAA 240
 TTGTTTCATT TTGTGTGCTG TGCTTCAAAG CCTTAAGTGT CAAATCTTGC ATTATCTNGT 300
 TTGTACAGAA ATATACTGGC CTAGCAGNGG CAAA 334

SEQ ID NO:3154

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03724

SEQUENCE DESCRIPTION:

GATCAAAATT TGTGTACTTG CAGGGCTTTC TTTCTTTTNN TTCAAATTTA CAAGGGTTCA 60
TTTTGGAAAC TACATTTTAA ACTTTGGAAT CAAATTGTTT CTTATTGGG AGGATAATGT 120
ATATACATTG GTATTATGTT AAATAATAAA ATTGTNCTAA TTTGGTGCCA TTTCTGAAT 180
CACAACTGTA TTTTGNATC TCANGCTATT TTCATATGTN ATGTGTCAAT GTATCATCTC 240
TCAGAAAGGT TTTACANTCC AAACATTATA TGTNCTCTGT GAACTGAAT TTNACTTATC 300
TNTNTAAAC CAGNAACATT AATTGAGAAA 330

SEQ ID NO:3155

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03725

SEQUENCE DESCRIPTION:

GATCTTCGCA AGCCAGCTTC TTCTGCATCT NAGGGGCTGC TGGCGCCCAN AGGAGGCAGA 60
CAGATGTCTN NTAGCTGAGT TTCTAACCGC ATGATGAGAC TCAGACCTTC CGCTGCACTA 120
GAAAATCTGC AACAGTGTCC CTGAGTCACT TCTCCTTAGT GGGCAGACTC GTGTTAGATT 180
TGTGGAACCC AGCTCTCTGA TTTACTCCTT TTGGAAAACC CATGGAATTT CATGTATAAG 240
GCTTTCATTT GTATTTNAAG GTTTTCTGT TTGTTTTGAG TATATACATG GTGCTCAATA 300
GCAACATCTT AGCAGATGAA GCAGTTTATN 330

SEQ ID NO:3156

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03726

SEQUENCE DESCRIPTION:

GATCTACTGC AAATCCTGCT ACGGAAAGAA GTATGGGCCA AAAGGCTACG GTTATNGCCA 60
GGGCGCTGNC ACGCTTAACA TGGACCGTGG CGAGAGGCTG GGCATCAAAC CAGAGAGTGT 120
TCAGCCTNNA CAGGCCTACA ACAAATCCAA ACACCTCTAA ATTNCTCAG AAATATGGAG 180
GTGCNGNGAA GTGTTCCAGG NGTGGGGATT CTGTATATNC TGCCGAGANG ATAATTGGAG 240
CTGGAAAGCC CTGGCACAAA ANCTGTTTCC GATGTGCAAA GTGTGGGAAG AGTCTTGANT 300
CAACANCTCT GACTGNAAAN AGAAGGTGN 329

SEQ ID NO:3157

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03727

SEQUENCE DESCRIPTION:

GATCGGGCGC ACGGNCCGCT TTGGCAAGAG GGGCCTGGCA GTGAACATNN TGGACAGCAA 60
 GCACAGCATG ANCATCCTGA ACAGAATCCA GGAGCATTTC AATAAGAAGA TAGAAAGATT 120
 GGACACAGAT GATTGGACG AGATTGAGAA ANTAGCCAAC TGAGAAGCTC CACCAGCCAC 180
 TGATGCCAGC CCTGGCACTG CCCCTGCACA GGAGACAAGT GCGTTCAGGG CACAGGCCCC 240
 GACATCACCC CAAGGNCAAC GGCACAAGTA GAGAGANACT ACCTACCTCA NTTCANATTA 300
 TGTTTGGCCT TGACAAAATT GTATGCAAN 329

SEQ ID NO:3158

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03728

SEQUENCE DESCRIPTION:

GATCAAATTT ACTNGAACAA TTGTTAATTT ATCCATTGTG CTTAGCTTTG TGACACAGCC 60
 AAAAGTTACC TATTTAATCT TTTCAATAAA AATTGTTNTT TGAAATCCAG AAATNATTTA 120
 AAAAGAGGTC AGGTTTTTAA CTATTTATTG AAGTATGTGG ATGTACAGTA TTTCAATAGA 180
 TATGAATATG AATAAATGGT ATGCCTTAAG ATTCTTTGAA TATGTATTTA CTTTAAAGAC 240
 TGGAAAAAGC TCTTCCTGTC TTTTAGTAAA NCATCCATAT TTCATAACCT TATGTAAAAT 300
 ATGTNGTNCC TGTTTCCAAT AGGTGAN 327

SEQ ID NO:3159

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03729

SEQUENCE DESCRIPTION:

GATCTGAATT TGGACCATTT CACTAAAGAG AACATGAGTT TGCTCAGCCC TTTCTCACA 60
 AGAGGGAGGG CCCCGGTTCC CCAGACTTCT CCACGCGCTG GCTCCATAAA GGCCAGCTTT 120
 GGCCAGGCTG CCACAGGGGC CTNAGGAGCT CACTCTGGGC CTACCTGGTT TCAGTTAGAG 180
 GGTCTCTCTG TTATTTTCC ATTTAAAAAG TATGTCCTCA GAAAACTGTA NTGGAAGGAT 240
 GGGTGGCAGG AACTTGTATA GTTCAGCTTC CAACACTTTG GAACAGATTA AAAAGGGAAT 300
 CTTTTAAATA AAAACGTATA NAAA 324

SEQ ID NO:3160

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03730

SEQUENCE DESCRIPTION:

GATCTTGGTT TTAATTAAC TATTACTCTA TTAATATAAC CTTGGAATTC TATTCTAATN 60
 ATGTTGTTCT GGCTGCTTGT AGTATCAGTT CGCCCCTCTT GTTAGGGAGA TATGTAACAA 120
 TCTGTCATTT AATTGAGCAG TCTTTTTCAC ATAACAGTAA TAGCAAAAAT CCTACCTACT 180
 CAGAATCATC TNCTTAGGTT GTCTCCTAAA TCTGAACAAT ACAGTTGTTT TATAAANTNN 240
 CATTNGTCT CTTGAGATTN AATCAATTAG AACTCTTTAG GGAGAAAATA AATANTAGAN 300
 GAAANTATAT GCCTCANATT GN 322

SEQ ID NO:3161

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03731

SEQUENCE DESCRIPTION:

GATCTGACTT TTTTCCTTCT CAAAAGAATC ATACTTGGGA TTACAGGTAC ATTTNATGTT 60
ATATNATGGA TAAGTGAAAA NTTTTTAAAG GAGATTTTAT ACCTTTTCAC ATTAAAAAAG 120
GTATTTATAT TATNACTTGT TAGTGATTGT CTTAAGAAAA AATATAGCCC AAATGTATAG 180
TAAAATCAGC AGCTCAAGAA GAATTTCTGC TTCTNTTGT AGTTGATGCT TTGTTTTTNC 240
CTGCAGTCAG AAATTCCTTG TATTTGTCAA ATGTATAATC AGCTTGATT GTTTTTAAAT 300
TAAAANAAAA TTTGANTAAA 320

SEQ ID NO:3162

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03732

SEQUENCE DESCRIPTION:

GATCTGAAAA NAAACCTTAA TACGCTCATA TGGTTGGAGT GTTAAGTGAA CCTNTGATTT 60
TTNAGGGTT TTTNTACGTG TAGGCGTGAA TAGGGGGCAC CCCTTCAAAA CTGTACAAAG 120
AAGACGACTG TTTTCCATTT CCATTTAAAC ATTTTATAGCC ACTTCATTC TATTTATTGA 180
ACAGGTCAAA TTTGTNTTGT TATTTGTGAG TACAGTACAT TTAaaaaaca TCCTTATCGG 240
TTATTTTTTT TTCAGTCGGA GTTTGACGTA TAAATNGTTT ATGCTTTTGG TGAATCTCT 300
TAATAAACTG GTTCTTCAAA 320

SEQ ID NO:3163

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03733

SEQUENCE DESCRIPTION:

GATCAGCTAG CTGATTCTT GTGTACTTTT TTNAACTGT GGGTTTTCCT AGTAAATTTA 60
ATTTACAGAA ATNAATGGTA GCATTTAGTA ATCTACAAAG GAAATATCAA AGTNTTTTNN 120
AAGCCTGTNA TATTCAGTGT GTGCCACAGG ATTGAAATAA ATGACAATGT AATTATGAAA 180

SEQ ID NO:3164

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03734

SEQUENCE DESCRIPTION:

GATCAGAATT CCGATTGAC GGGCAACCAA TCAATGAAAC AGACACACCT GCACAGTTGG 60
AAATGGAGGA TGAAGATAA ATTGATGTGT TCCAACAGCA GACGGGAGGT GTCTACTGAA 120

AAGGGAACCT GCTTCTTTAC TCCAGAACTC TGTCTTTAA AGACCAAGAT TACATTCTCA 180
 ATTAGAAAAC TGCAATTTGG TTCCACCACA TCCTGACTAC TACCGTATAG TTTTCTCTAT 240
 TCTTTCATTT CCCCTTCCC CATTCTTTA TTGTACATAA AGTAACTGGT ATATGTGCAC 300
 AAA 303

SEQ ID NO:3165

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03736

SEQUENCE DESCRIPTION:

GATCTAGAGC CAGGCTGGTC AAGACAAGAA TTGGCTGGAA TAGGCTGCTC TTCCCCCATT 60
 CCATCATGTG CTGTCCCAC CCCTTTGGCC ACCTGGGCTG ACTGTGTCTT AATACCTCAA 120
 GTGCAAGTAT ATAGGAGTAA GAAATNAACA ATGCCTGCCT CTTTATACTC ATGCCTACAT 180
 TGTATGACAT CTAGTATGAA AGGGAAACAT TAAAGGAAAA CCCTTGTTTT GCTCTAAAAC 240
 CTGAGGACGG TAAACACTGA GAGTAACCTG GTGCTTGGTT TGAAGTAAAA CACAAATACT 300
 TCCCTTTTAA A 311

SEQ ID NO:3166

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03737

SEQUENCE DESCRIPTION:

GATCAAGGGC AATGCCAATG AACATCGGCA TGGATTATAA TTATGCCCTC CTGGAAGTCA 60
 AAAAGCCCCA CAAGAGAAAA TTTATGAAGA TTGGGGTGAG CCCTCCTGCT AAGCAGCTGC 120
 CAGGGGGCAG AATCACTTC TCTGGTTATN ACAATNNCCN NCCAGGCAAT TTGGTGTATC 180
 GCTTCTGTGA CGTCAAAGAC GAGACCTATG ACTTGCTCTA CCAGCAATGC GATGCCAGC 240
 CAGGGGCCAG CGGGTCTGGG GTCTATGTGA GGATGTGGAA GAGACAGCAG CAGAAGTGGG 300
 AGCGAAAAAN 309

SEQ ID NO:3167

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03738

SEQUENCE DESCRIPTION:

GATCTTGATA TGTTTAAACA TTATCATGGC AGGGAAATAT ATAAAGAAGA AAAATATTTT 60
 NACATTAAAC CTTTCTAAA ANTTGTAAAT AGAAAAATAA TTTGGTTTTT NATCAAGANC 120
 AACACTTATC GTTATGTATT GTGTTAGTTA TATTGCCAGT CTGTTGCGAC TGACTCAAAA 180
 AGTTAAATGT TGCCACTGCT GANGATGATT ATGNGCATCG CANACTTTGT TTCTGNCCCA 240
 TTTTGGCAGT TTTNATATAC TCCNTTAAGA TGTTGAATGT TACAGTTAN TAAAGTTAAT 300
 ACCTTTAAA 309

SEQ ID NO:3168

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03739

SEQUENCE DESCRIPTION:

GATCCTTTAC AGAAAAAGTT TTCTGACCTC AATTCTAAAG TAATTGTAGT AGGGAGCTGG 60
AGGACTTTCT TTCCCTTTAT GGTAATTTT TGAGCTACAA AAGAGCCTTG CAGAAATGGG 120
TGAAGGGATT AANCTTTTAA AAATAAATGC TATATATTAG GAAAATAAAA AATATTTTAG 180
AGCCAAGTTA ACAAGTACTT CAGCAAAACA TGCTAGTTTT ATGCAGGGGA TTCTGTATTG 240
CAATGGATA CANTCCGACA TATATAAAG AATCAGATTC TTAATATTG ACTCTTATTT 300
NGCAAN 306

SEQ ID NO:3169

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03740

SEQUENCE DESCRIPTION:

GATCATACCC AGAATTCAAT GTTTGATATT TTAAGAATGT ATGTTCTAGT GTTTTNAGA 60
GTGAGTCTAC CATCTGTATA AAAACACCTT GGGGGCAGGC AGGGGCATTT AAAAATGTAG 120
GACCTATCGT CCAGACTCAC AGAGTGGGGC TCCAGAATCT CCATTTTAA CAACTCTCT 180
TAAGTAATTC TGATGTGTAC CAAAATCAGT GCCATTGGTG TGTGTGTACG TAACTATATA 240
CATATGTGTG TGTGTGTATA TATATAATGT GTCATAACCG TAAACAATAA ACAATATCAA 300
GNTAAA 306

SEQ ID NO:3170

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03741

SEQUENCE DESCRIPTION:

GATCTGTCAT GTTTAAACCC CCTACTTCTA AGGGAACCTC TCTAATCTCT TATCCTCATC 60
CCCAAATAGT GTTTTCTTCC TCTGGGTCT TATAATNTG GTATCAATCT CACAGCATTT 120
AGTGCTTCCT GCCTGGTGTG ACAGTTACCT GTGTGCATGT GCAATTTCTA ATTTCCACG 180
CTAGACTGTG AGCTTCCTAA GGCAAGAATC ATGCCTTGTT GGTTCCTGTA TTCCTCATGG 240
TGCCAAACAC AGTGCCTTCT ACATTGCAGG CGCTGAATAA ACATTTTAA AGCAAAAAAA 300
TTNAAA 306

SEQ ID NO:3171

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03742

SEQUENCE DESCRIPTION:

GATCTCCAGT GGTCAAAAGA CATTTACCCT TAATATCAGA CAACATTTAT ATTTTAGTGA 60

AGAAACAAGT TCTCGGGTGG GGAATCTATG TTCTACTCAG ATTTATATGT TTGGAGGAAA 120
 AAAGCCTTTT TTTGTAAAT ATTTAAATTT ATATANGAAA ATGTTAGAAA AAAATATGGG 180
 GGAGTGTATT ATAAANCCTG CTTTATTTGC CATGGGGCCN GGGGGAGGCC NGGCCTAATA 240
 CTCCTAAAGT ANGTGTTNGG GNCCNTNTTT TCTTCCAATC CACCTGGTGC TGTTCNTGT 300
 AANGN 305

SEQ ID NO:3172

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03743

SEQUENCE DESCRIPTION:

GATCTCCGGG AGGGACAGAT GGCCAATNTC TCCCCTTCCA AAGCAGGCC TGCTCCCCGG 60
 GCAGCTCCC GCCGAGGGGC CCAGCCCCCA ACCACAGGC AGGGAGGGGC ATCCCTCCCT 120
 GCGGACCTCA GGGAGCGAAC GTGGATGAAA ACCACAGGGA TTCCGGACGC CAGACCCCAT 180
 TTNATACTTC ACTTTCTCT ACAGTGTGT TTTGTTGTG TTGGTTTNA TTTTNNATAC 240
 TTTGGCCATA CCACAGAGCT AGATTGCCCA GGTCTGGGCT GAATAAACA AGGNTTTTCT 300
 AAA 303

SEQ ID NO:3173

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03744

SEQUENCE DESCRIPTION:

GATCACTTTT GAGCTCTGAA GCTTTGAATC ATTCAGTGGT GGAGATGGCC TTCTGGTAAC 60
 TGAATATTAC CTTCTGTAGG AAAAGGTGGA AAATAAGCAT CTAGAAGGTT GTTGTGAATG 120
 ACTCTGTGCT GGCAAAAATG CTTGAAACCT CTATATTCT TTCGTTTATA AGAGGTAAAG 180
 GTCAAAATTT TCAACAAAAG TCTTTTAATA ACAAAGCAT GCAGTTCTCT GTGAAATCTC 240
 AAATATTGTT GTAATAGTCT GTTCAATCT TAAAANGAAT CAGTAAAGC AAACAAGGGG 300
 TTAAA 306

SEQ ID NO:3174

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03745

SEQUENCE DESCRIPTION:

GATCAGCAAA CACGATAGAG GAGACCAGTC AGTACTTCTT GGAGGGGGCN GGAGGAGAGA 60
 GGAAAAGGGA GGGCGAGAAT NACCACACAA CACAGCCNTT NGACCATGAG CAGAAGCGTC 120
 CGTGGGAACT CCACTGGGGT NGATGGGCTG CCTGCACAGC CCCTGGAGAG GGGGCCAGGC 180
 ACACCTCAG AGGAGCTGCA ACCCGTGGCC TGGCTGCTA CATGCCCTGC TTCCACGTGG 240
 NTGCCACGGT GACACANCA CATTNACCA TCCCNCCGG GTCCTGGGA CGNAGNCACG 300
 N 301

SEQ ID NO:3175

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03746

SEQUENCE DESCRIPTION:

GATCAAAGTT GTCATGAATA CTGACTTGGG CGTGGGACCC ATCCGAGATG TGCTGCACCA 60
CATCTACAGT GCGCTGTATG TGGAGCTGGT GGTGAAGAAT CCCCTGTGCC CGCTGGGCCA 120
AACTGTGCAA AGTGAGCTCT TTCGCTCCCG ACTGGACTCC TATGTTGCTT TTCTGCCNN 180
NTTCTCCGCC CGGGCTGGCT GAAGCAACCT ACCTCAAGTN TCAGGAGAAT TCATGTCTNC 240
CTGGGGCCCT TCCGAACCTT GTGCCAACTA AGGGCCCCCA NTGTAAGCCC CCGTACCTN 299

SEQ ID NO:3176

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03747

SEQUENCE DESCRIPTION:

GATCTGAATT ACTACAGAAA AATAATTATG TTGCTTGCTT AATNATTCCC AGGAAACTTC 60
GTTGTAGGCA TATATTTTAT AAGAGTATTA TACAGTGTTA ACTATGCAAG TAAGTTCTAA 120
AATNACACAA TNATCTGTGT AATGTTTATG TCCAATNACT GTGATTTATT CAACTCTGTT 180
CTAAAGTTAT CTGGAATTGT CATGCTGCCT CAATTTACAG AAATCTATAA TAGATTTCTA 240
TAGAAATGTA TAAAGACGTA GCAGTCATTT TGTGTTTCT AAATAGATAA CATATAAA 298

SEQ ID NO:3177

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03748

SEQUENCE DESCRIPTION:

GATCAGAGTA TGGGTTCTCC ATGTAGCAAT ACTTCAGTGA GATTAAGTAT AAACAGTTTT 60
TGGCAAAAAA CAACACAGTC TACTCTTCT GCTTACAAAG ACAAAGCCTT ACAAACCTAC 120
TATGAAGGTA AAGGGAGGAC AGCTTGCTTC TTTGCCCAGA CATTTACAAA GTTGTTTTTA 180
AANCACACTC ATAAGTAAGT TTGGCAAGTT GTTTAAAAA TGTCTCTTG TTTGTACAG 240
TTCTGTTAGA TGTGTNATA TTTTAANAGT TTAATTANA ANNTTNATT TNGTCN 297

SEQ ID NO:3178

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03749

SEQUENCE DESCRIPTION:

GATCTNATTA CCTTCACGGA AGGAAGCGGA CGCTCACCAC GCTATGCCCT CTGGTTCTNT 60
GTGGGGGAGT CATGGCCCA NNACCAGCCG TGGACCAAGA GGCTCGTNAT GGTCAAGGTT 120
GTGCCCACGT GCCTCAGGGC CTTGGTAGAA ATNGCCCGG TAGGGGGTGC CTCCTCCCTN 180

GAGAATACTG TNGACCTGCA CATTTC AAC AGNCACCCAC TCTCNCTTNA CCTCCGACCA 240
GTACAAGNCC TACCTGCAGG ACTTGGTGGG GGGNATGGAT TTCCAGGGNC CTGGGTN 297

SEQ ID NO:3179

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03750

SEQUENCE DESCRIPTION:

GATCATCACA TTTTCGTGAAT TGAGGCCATG TTCAGGTGCT AAGGAAGTAT GCCTTTNACA 60
CAGAAGATTG AGAAAATTC CTAGATATAA ATACAGATAA ATCAGACGTT ACAGTGGTGA 120
CGTAGTAACC ATCATGGCAA TGGAAAGNAG TCCAATTCAT AGCCTAAAAC TTCAAATGTA 180
TTCTTAGGAG TCAGATTTTA CTGAATATTT TACCCACAAT AGCTGCCTAT TTTGTTATAA 240
TAAATATAT ATAANTNTAT NTCTNNNCCT TCCTTTAANC TGTA AAAANNA NNNAN 295

SEQ ID NO:3180

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03751

SEQUENCE DESCRIPTION:

GATCCAGCA CTACTTTTAA TTACTGGAGA AATGGGGGGG ATAGAAAATT CTACTTTGAA 60
TTATTTAGTT TTTTAAAG AGTGGGTTGT GTTGTNCTT CTCCACCTT TCAGCATTGA 120
TAGAACATGC TGCCCCACAT ACAAAGTCAA GACCACTTAC TTTTATGTGA CACTAGTAGT 180
TTGGGGTTAA TGTTTTGTGT AAGANCAGCT GCATATGAGT AAAGTTACCC CAACCACAGT 240
GAGGAGGAAG ATGTTACAT ACTGGAAGT TCCTGCCAAA TAAATTTTGC CCCTN 295

SEQ ID NO:3181

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03752

SEQUENCE DESCRIPTION:

GATCAGTTAA TGCCTAAGAG TGAAAGTAGT TCTATTGACA TTCCTCAAGA TATTTAATAT 60
CAACTGCATT ATGTATTATG TCTGCTTTAA TCATTTAAAA ACGGCAAAGA ATTATATAGA 120
CTATGAGGTA CCTTGCTGTG TAGGAGGATG AANGGGGAGT TGATAGTCTC ATAAACTAA 180
TTTGGCTTCA NGTTTCATGA ATCTGTAAGT AGAATTTNAT TTTACCCCA ATAATGTTCT 240
ATATAGCCTT TGCTAAAGAG CAACTNATAN NTTANCCCTA TTCTNTCTGT GAAA 294

SEQ ID NO:3182

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03753

SEQUENCE DESCRIPTION:

GATCCGTGCT GGAAACTCGC AGGGGGACTT TTACATTAGG CAAATCAACA ACGTCAGCGC 60
 CATGCTGGTC CTCGCCCCGC CGGTGACGTG CCCCCGGGAG TACGTGCTGG ACCTGGAGAT 120
 GGTCACCATG AATTCCTCA TNAGCTACCG GGCCAGCTCT GTACTGAGGC TCACCGTCTT 180
 TGTAGGGGCC TACACCTTCT GAGGAGCAGG AGGGAGCCAC CCTCCNTGCA GCTACCCTAG 240
 CTGAGGAGCC TGTGTGAGG GNCAGAATGA GAANGGCAAT AAAGGGNGAA AGN 293

SEQ ID NO:3183

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03754

SEQUENCE DESCRIPTION:

GATCTGTGGA CITTNATTTT TTTAAGAGAC TTACTCAATT TNATGACTGT ACTACCTGAA 60
 ACAAAGTGAG AAAGGACAGG TGTATTTTC TAAGTNATCA AGATAAATCC TTAANAATTC 120
 AGTCTAAATN AGCAACCAGG AAGGAAAAAT ATATTAATAA CAACAAAAAA GTGGCACATG 180
 TCCAGGCAGT GTGAGGATTT GCTGTATATA AGTTGCCTGC TTTGTATTNT TNAATCTCT 240
 GCATCACTCA TTGGAAGTGC TTCTNAAGAG AGCTGCTCTG TGTTCAGTTG AAA 293

SEQ ID NO:3184

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03755

SEQUENCE DESCRIPTION:

GATCAAGATG ACCAAGATGT ATAAAGGGTT CCAAGCCTTA GGGGATGCCG CTGACATCCG 60
 GTTCGTNTAC ACCCCCGCCA TGGAGAGTGT CTGCGGATAC TTCCACAGGT CCCACANNCC 120
 GCAGCGAGGA GTTNTCATT GCTGGAAAAC TGCAGGATGG ACTCTTGAC ATCACTACCT 180
 GCAGTTTNT GGCTCCCTGG AACAGCCTGA GCTTAGCTCA GCGCCGGGGC TTCACCAAGA 240
 CCTACACTGT TGGCTGTGAG GAATGCACAG TGTTTCCCTG TTTATCCATT CCCTGCAAAC 300
 TGCAGAGTGG CACTCATTGC TTGTGGACGG ACCAGCTCCT CCAAGGCTCT GAAAAGGGNT 360
 TCCAGTCCCG TCAACTTGCC TGCCTGCCTN GGGGN 395

SEQ ID NO:3185

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03756

SEQUENCE DESCRIPTION:

GATCAGCACT TNANTCGGAA AGTTGGAACC TCTGACAAGA CCAAGTACTA CCTTCAAGGT 60
 AATCCGTGGC TTCCCACAAA GTTCCACATT TAATTCTC CAAGGAAGGG GATTAAATTT 120
 TNAAACTAAC TCCCTTCAGT TGAAATCTCG GACCACTNNN NAAAACAAAA ACCATGGTCT 180
 AATTNTTNC TTTGTTATGA ATTTNTTGAC AGTGGATTGA GCGATACGTG TCAGANCTAN 240
 GCATTTCACT GTAGGCAAAT TGTGTCTTAG TTATCANGTA AATGTACAAA 290

SEQ ID NO:3186

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03757

SEQUENCE DESCRIPTION:

```
GATCCAGATG ACTGAATTTC AGATAGCATT TTTATGATT CCAACTCATT GAAGGTCTTA 60
TTTATATAAT TTTTCCAAG CCAAGGAGAC CATTGGCCAT CCAGGAAATT TGGTACAGCT 120
GAAATATAGG CAGGATGTTC AACATCAGTT TACTTGCAGC TGGAAGCATT TGTTTTGAA 180
GTTGTACATA GTAATAATAT GTCATTGTAC ATGTTGAAAG GTTCTATGG TACTAAAAGT 240
TTGTTTTATT TTATCAAACA TTAAGCTTTT TTAAGAAAAT AATTGGGN 288
```

SEQ ID NO:3187

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03758

SEQUENCE DESCRIPTION:

```
GATCCCCAAA AAGTGAATAT CAATGGAGGA GCTGTTTCTN TGGGACATCC AATTGGAATG 60
TCTGGAGCCA GGATTNTGG TCATTNACT CATGCCTTGA AGCAAGGAGA ATACGGTCTT 120
GCCAGTATTT GCAATGGAGG AGGAGGTGCT TCTNCCATGC TAATTCAGAA GCTGTAGACA 180
ACCTCTGCTA TTTAAGGAGA CAACCCTATG TGACCAGAAG GCCTGCTGTA ATCAGTGTGA 240
CTACTGTGGG TCAGCTTATA TTCAGATAAG CTGGTTTCAT TTTTNATN 288
```

SEQ ID NO:3188

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03759

SEQUENCE DESCRIPTION:

```
GATCAGCAGC TGTGGAATA AAGCTTGTA GCCCTCTGCT GGCCACAGTA NAGGAAAGTA 60
GCACAAATAG GATACAGTTG TATGTAGTCA TTGGCAACAA TTGCATACAA TTTTACTACC 120
AAGAGAAGGT ATAGTATGGA AAGTCCAAAT NACTTCCTTG ATTGGATGTT AACAGCTGAC 180
TGGTGTGAGA CTTGAGGTTT CATCTAGTCC TTCAAACTA TATGGTTGCC TAGATTCTCT 240
CTGGAAACTG ACTTTGTCAA ATAAATAGCA GATTGTAGTG TCAA 285
```

SEQ ID NO:3189

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03760

SEQUENCE DESCRIPTION:

```
GATCTCACCA TTATGACATC CATCCCCCTA GCTCACCACA TAGCACATAG AATGATATTT 60
TTAATTTGTA AGAGGCCATC CAGGTACTAA GGNCCCAAGG CATAAGATT CACAAAATNA 120
ACTAATCTTT TTGCCCTAGA ATACCAAAAC ANCAAAANTA TAAAGCTGTA TTTGGACANC 180
TANAAAACAC CAACTATCT CATTGCAATT NGTATTGTAG CAGATGTTCA GCAACTATCC 240
```

TAATCANTGT TATTGTGTTT CANTTTAACT GGGTTAAATG TTTN

284

SEQ ID NO:3190

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03761

SEQUENCE DESCRIPTION:

GATCTCGACT CCCCCCTGGC CACAGACCCC CAGGTCATTG TGTTCACTGT ACTCTGTGGG 60
CAAGGATGGG TCCAGAAGAC CCCACTTCAG GCACTAAGAG GGGCTGGACC TNTGCGGCAG 120
GAAGCCAAAG AGACTGGGCC TAGGCCAGGA GTTCCCAAAT NTGAGGGGCG AGAAACAAGA 180
CAAGCTCCTC CCTTGAGAAT TCCCTGTGGA TTTTAAAAC AGATATTATT TTTNTNATTA 240
TTGTGACAAA ATGTTGNTAA ATGGGATATT AAATAGAATA AA 282

SEQ ID NO:3191

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03762

SEQUENCE DESCRIPTION:

GATCTGGAGA AGTAAGATGG CCAAATAAAA GCCTCTACCA ATCATCCTCC CCACAGGAAC 60
ACCAAAATTA AGAACTATCT ACACAAAAAA GCACCTTCAT AAGAACCAAA AATCAGAGAG 120
AACAAGGATA AAGAAGTATC CAAATACAAA GAAAATGTTA TGCAAGTGAC CTTTAGAGAT 180
GTTTTAAAGA TGACAAAATA TTGATGANGA TGGGCCAACA AGTGTACTG TTACCTCTAA 240
TAAAGTTTCA TCACTAGTTT CACCATGGTT AATTGGAAA 279

SEQ ID NO:3192

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03763

SEQUENCE DESCRIPTION:

GATCTGCTCA AATGCACCAA CACTGCCAAG TGACTAAGGT AGAAAAGAAA AATAACAGGT 60
ATCGTCATCT GAAGGACAGA TGAATCTTTT TCTGCCCTT CTTCACAATG GAATATAAGG 120
AACAATTATG GGATGTCATC AGAATGGATG CCATAGGACC TACAGCTCCC TTTCTNTTTA 180
TTGTNATTAT ACTTTAAATA TGACATTGTC TTTNATGTGT ATGTCCTAT ATTTCAATG 240
TATCTTTTTC CTTCAGTAAA CCTGATATTC AAATAAA 277

SEQ ID NO:3193

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03764

SEQUENCE DESCRIPTION:

GATCACAGGG AGCCTGTGTT TGTTGGAGGT GTTCCAGAAT CTNACTGAC ACCACGCTTG 60

GCGCCAGCA AACNTTCAC AGGCTGCATA CGCCACTTTG TGATTGATGG ACACCCAGTG 120
 AGCTTCAGTA AAGCAGCCCT GNTANGCGGC GCCGTANGCA TCAACTCCTG TCCAGCAGCC 180
 TGACATGACA NAGCACAGCT GCCCAANTAC AAAGTTCTTT AGNGCAATGN AAGNAACACA 240
 AAAGCCAGNC CAGGAGGCNC CAGTTNCTTA TTCCTTN 277

SEQ ID NO:3194

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03765

SEQUENCE DESCRIPTION:

GATCACAGAA GCCACTGCAC TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA 60
 AATTAAATAA ATTATTATAA CCTTTCAGAA ATGCTGTGTG CATTNNATG TTCTTTTTTT 120
 TAGCATTACT GTCACCTCCT CTAATGAAAT GTACTTCAGA GAAGCAGTAT TTTGTAAAT 180
 AAATACATAA CCTCATTCTG ANTAATGTCC CTCATTTTGA CTATAACTGT GCTTGGTTTC 240
 AAANGCAAAN TTAANCAAAA ATCTCAGTCA AA 272

SEQ ID NO:3195

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03766

SEQUENCE DESCRIPTION:

GATCTCCTGC TGGTCAGTGG GCGGGCGGCA GCACTACCGT GGCCTGGTAC CAGGTGAGCC 60
 CGCTGGCCGC CCGCCTGCTC TACCCCTACC TGGCCTGGCT GGCCTTCGCG ACCACACTCA 120
 ACTACTGCGT ATGGCGGGAC AACCATGGCT GGCATGGGGG ACGGCGGCTG CCAGAGTGAG 180
 TGCCCGGCC ACCAGGGANT GNAGNTGNAC CAGNAGGTGC CATNANGTTT NTAATNTAGT 240
 GGCCGTNANG TTTTAATGAC CANTGGGNCT GN 272

SEQ ID NO:3196

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03767

SEQUENCE DESCRIPTION:

GATCCCATCT NTTTTCCCTT CTTTCCTCCT GGTTCCGGTC AGTTCAGAGG ATTTAACAAT 60
 CACAAGTGTC CTGCAAAAAT GCCTGAACAT TATTCTTAGG CCCTCGTGGA TTTTTTTTTT 120
 CAGAAAACCT AAACAAAAAA NGACTTACTA NGAAATATGT ACAGCTACCC CTGTTTTCAG 180
 GCACTATGTT TGNGANCATT TTNGCCATTG ANGTTCACAC GTGGCATCAG CCCATGCAAG 240
 ATAGGTTTCT GTATTNNTAT ATNANNNTN 269

SEQ ID NO:3197

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03768

SEQUENCE DESCRIPTION:

GATCCAGCGA GGGGTCCAGG CCCTCTGCAT CTCCTCAGGC TCCAACCGTG CTTCTCAGC 60
 AATNAGCTCT CCTCCAGCTT TGGCTTTGGG AAGCCAGACT CCAGGGACTG AAAAGNAGCA 120
 ACAAGGAGAG GGTCTGCTTG AGAAATGCCA GATGCTTGGT CCCCAGGAAC TAAGGCGACA 180
 GAGTGCAGGG TGGGGGCAAG ACTGGGCTGT AGGGGAGCTG GACTACTTTA GTCTTCCTAA 240
 AGGACAAAAT AAACAGTATT TTATGCAAA 269

SEQ ID NO:3198

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03769

SEQUENCE DESCRIPTION:

GATCCCCTGG AGCCCAGGAG GNAGGTGTGT NAGCTCAATC CGGACTGTAN CGAGTTGGCT 60
 GACCACATCG GCTTTNAGNA GGCCTATCGG CGCTTCTACG GCCCGGTCTA GGGTGTGCGCT 120
 CTGCTGGCCT GGCCGGCAAC CCCAGTTCTG CTCCTNTCCA GGCACCCCTC TTTCCTCTTC 180
 CCCTTGCCCT TGCCCTGACC TCCCAGCCCT ATGGATGTGG GGTCCCCATN ATCCCAGCTG 240
 CTCCCAAATA AACTCCAGAA GAGGAAA 267

SEQ ID NO:3199

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03770

SEQUENCE DESCRIPTION:

GATCTGAACC TGTCAATTGA AGTACAGGTT AAAGACTGTG TCCACTTTGG GCATGAAGAG 60
 TGTGGAGACT TTTCTTCCCC ATTTTCCCTC CCTCCTTTTT CTTTCCATG TTACATGAGA 120
 GACATCAATN AGGTTCTCTT CTCTTTCTTA GAAATATCTG ATGTTATATA TACATGGTCA 180
 ATAAAAATAA ACTGGCCTGA CTTAAGATAA CCATTTTAAA AAATTGGGCT GTCATGTGGG 240
 AATAAAGAA TTCTTTCTTT CCTAAA 266

SEQ ID NO:3200

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03771

SEQUENCE DESCRIPTION:

GATCTGACTT GGGGAAAGGG TTATCAGAGC CTAGAGGGGC TTAAAAAGTA ATCATTTGAT 60
 GTACATACCA CACTCCTTGG CTTCTTTTCT CTTCCCTTAA CCCTTCTGC TTTTCATTAA 120
 CCACATTCTT GCACAACTCA TTTCTGAAAA CCTACCATGT TTCTTTACAG AGCCATCCAA 180
 AAATTTTTTG TCCCTACATA GCAATTTTCT GTGGCACTGA GAAACCATGT ATGACCACAA 240
 TAAAAATCCA TTTTGTGAAA GGAAA 265

SEQ ID NO:3201

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03772

SEQUENCE DESCRIPTION:

GATCTCAGCT CACTGCAACC TCTGCCTCCT GGGTTCAAGC GATTATCCTG CCTCAGCCTC 60
 CTGAGTAGCT GGGATTACAG GCATGCGCCA CTATGCCAG ATAATNTTTT TGTATTTT 120
 GTAGAGACAG GGTTTTACCA TGTGGCCAG GCTGGTCTGG AACTCCTAAC CTCAGGTTAT 180
 CCACCCACCT TTGGGCCTNC CAAAGTGCTG GGATTATAGG CATGGANCCA CCGTGNCTGG 240
 NCANAGATGT AAGTNTAAAT TN 262

SEQ ID NO:3202

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03773

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CATGCCANC 60
 CACCTTTTCT ATNTTATAGT ACATAAACAC TCACCACTGT GTCACAGTCA CCTACAGTAT 120
 TCAGTACAGT AGCATATGCT GTACAGGCTT GTAGCCTAGG AGCAATAGGC TATACCATAT 180
 AGCCTAGGTG TGTACACCAT CTAGGTTTTT CTAACCTACAC TCTATGGNGT TCACACAATA 240
 AAATTGCCCC NCGACGCAAA 260

SEQ ID NO:3203

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03774

SEQUENCE DESCRIPTION:

GATCCCAGCT TATGGCCTTG ACCCAGCCGT CCTCACAGAT GCCGGGTGAC CCTCTAGCTC 60
 TCTCTGCATC TCCCACCCCC CGACACCCTG GGACCCTCGA CCCCACCTT CTTTCCTACC 120
 AGCCCAGAGC CTGTGGCTT GTACAGTTTT GAAACTCCCG TTCTATTTTA TGATGGTTGA 180
 TAATAGTCAG TAACNNAATA AAGGAACGTT TGTTAAAATA TCAA 225

SEQ ID NO:3204

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03775

SEQUENCE DESCRIPTION:

GATCTGCCCC GCGCGNACCC GTGTTATGTT TTGTGCTGTG TCCACGCGCT AAGACGACCC 60
 CCTCCCCGT ACTGACTTCT CCTATAAGCG CTTCTCTCG CATAGTCAG TAGCTCCAC 120
 CCCACCTCT TCCTGTGTCT CACGCAAGTT TTNNACTCTA ATATNNNNAT GGCTTTTTTT 180
 CTTGCGCAA AAAATAATAA AACGTTTCT CTGAAA 216

SEQ ID NO:3205

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03776

SEQUENCE DESCRIPTION:

GATCTGACAC TTCCTTTCCA TTGCTTGGCC TGAACAGACT GACCTTGTNA ACTTAAGCCT 60
GGAGTCCATG CCTCGTCTTC CTTTGTTC TTGCTGTAC CAAGAAAGCC AAGGAAGAGC 120
AGCCTGACTC ATTCTTCTTG GCTGCAGCCT CTTCCCCACT TCCTGGGAGT GACCCAGCGT 180
TATTCTGCCC TCCTCACTCC TATTCTCTTT GCCTTTGTGT AAAAATAAAA TGGAAATAAA 240
CAAGTTGCAC AGTAAA 256

SEQ ID NO:3206

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03777

SEQUENCE DESCRIPTION:

GATCTCTTTT NATCATATAT GACATTAAGG CTACAGAAGT TTTGTGCAAN AATCTTAATT 60
CATATTTATN AATTTCAGG GAATATTGAA AGGTTTAAA ATGGCATACA GATAATGGAA 120
AATAAGCTTT ATGTTTCAAG AAGGGCAGAC TCACGAATTT TTTAGAAAAC AGTGCTTCTT 180
AATGATATGC TATTATNCTT ATNAGTTATG TGCAAGCTTT GTATATNCTT ATATNTATAT 240
NTAACTNTAA CCCTCN 256

SEQ ID NO:3207

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03778

SEQUENCE DESCRIPTION:

GATCCCAATT CGAGAGGTTT TAACCCCAAG ANCGGACATC TCGATTGCAC ACGTTCTGGT 60
TGCCCGAGCC GACCTGTCTT GTCTCGTCCC AGCCACCAGC GTGGCTGTGC GNAGAGGGAC 120
CTGCTGTGCC ATCAACAAGG TGCTTATGGG NAACGTTCCA TACCGGGGGN GCCGCCCAAA 180
TNAGCTGGAG CCTCCCATGC CCACCTGGAG NAGCNGAAGA GAGGATGGAG GCCCCAGTG 240
NNGGNNTCGC ANN 253

SEQ ID NO:3208

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03779

SEQUENCE DESCRIPTION:

GATCATGNTT CATGTGCTAA AAATAAACTT GAAACACGGA AGTAGTGGTT GGTCCAGTTT 60
GAAAGCTCTT ATNAGTATTC TTCATCCTGG CTGTAATAAT AGCCATNATT TGTNATGCCT 120
TTGTTATGTA GCAGACACTC TTAAGNATTT NATGTGTATN ATTCAAATTG CTATNACTGT 180

TCTTTTATA GTTGAGAATC TCAGGATACC TACATTTATC ACTTTTTC AA TATATATGTA 240
TTTCTTATTA AA 252

SEQ ID NO:3209

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03780

SEQUENCE DESCRIPTION:

GATCAAGCTG TCCGAACCTA CCAAGAGCAC AAAGCAAGCA TGCATCCCGT GACTGCAATG 60
CTGGTGGGGA AAGACTTAAA AGTGGATTAA AGACCTGCGT ATTGATGATT TTAGAGATTT 120
CTCTTTTTTA AATGGAATTC GTAAAGAAAT ATAAACTTC AGCTCACAAT TAAACTGTC 180
TTTTTAGTTT TGGCTTTTTA TTGTTTGTG GGTGATTTTA CTGAAATAAA GTTGAGCTAC 240
TTCTTCTTAA A 251

SEQ ID NO:3210

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03781

SEQUENCE DESCRIPTION:

GATCTTGTGT TCAGATGAAA GTGCAAGTTT TTATTAATTT GGATTGCCTG AACAGTGTAT 60
CCCATGATGA TGAAGGAAAA TGGAGAGATT TTTCTTTTAA ACTCTGNNNN NTCAGAGATG 120
AAGCCACGCC TTTCCATTTT TCAATGCTGC ATATTTAATC TGCAACAAAA ATGTTAAGCC 180
ATAACAGCCT TTTTATATTT TAGTTTGTC CTTTGCATT GCAGAATAAA TACTGGNTAA 240
CCATTTTAAA 250

SEQ ID NO:3211

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03782

SEQUENCE DESCRIPTION:

GATCTTACTT GTCCTGCTT ACGAAGATTN CCCAATNACT GGTCATCTGA CCCTACTTGA 60
ACACTCCTGA ACAGTCATGT TTTTAAAAAT NTTCTTTTAT ATCAAGTCAG AGAGTATACT 120
TCTATAAATT TNACTCATGG ATGTTAGGAA ATCTAGTCAT CTTCCCTGTG ATTGCCCTGT 180
TAAGTATTTA ACCATAGCTA TCATGTGTTT CCCAAATCTT CTCTAGATTA AATATCTTCA 240
GTTACTTCAA A 251

SEQ ID NO:3212

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03783

SEQUENCE DESCRIPTION:

GATCTAGACT GAGAATCAGC CTGAGCTTTA CACAGCTGGG GTCTGTACT CGCGTTTGT 60
 AGACTTTTGT GTAACTATTT GTACCGTAGA CAGAATGTGA GGAGGAAGTA ACACACAGAG 120
 GAGGATGTGT GTGTATGCAT GTGTTTGAAT TCACAAGGAA GAAATTATTT ATCTTGAGCT 180
 TTTTCCTTTG TTATTCAATT TCTATTGATT TATTAGTAAT AACAAATGATA ATAAAATGTA 240
 AATGAGCAAA 250

SEQ ID NO:3213

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03784

SEQUENCE DESCRIPTION:

GATCTAACGT GTTCCAGTGT CTGTCTGAGG TGTCTTAAAA AATCAGAACA AAACCTCTAT 60
 TATCCAGAGT CATGGGAGAG TACACNCTTT CCAGGAATAA TGTTTGGGA AACACTGAAA 120
 TNAATCTTC CCAGTATTAT AAATTGTGTA TTTAAAAAAA AGAACTTTT CTGAATGCCT 180
 ACCTGGCGGT GTATACCAGG CAGTGTGCCA GTTTAAAAAG ATGAAAAAGA ATAAAACTT 240
 TTGAGGNAAA 250

SEQ ID NO:3214

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03785

SEQUENCE DESCRIPTION:

GATCATAGGT CTGGACACTC CATCCTTGCC AAACCTCTAC CCAAAAGTGG CCTTAAGCAC 60
 CGGAATGCCA ATNAACTAGA GACCCTCCAG CCCCCAAGGG GAGGATTGG GCAGAACCTG 120
 AGGTTTTGCC ATCCACAATC CCTCCTACAG GGCCTGGCTC ACAAAAAGAG TGCAACAAAT 180
 GCTTCTATTC CATAGCTACG GCATTGCTCA GTAAGTTGAG GTCAAAAATA AAGGAATCAT 240
 ACATCTCAA 250

SEQ ID NO:3215

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03786

SEQUENCE DESCRIPTION:

GATCAAACTG CCATTCACAG TGTAAGGCAG CACTTAAATT TCGAACCTAA AGTTTAGATG 60
 CATTGTATAA AAAAACCTAA AAGCAGTATC TGTTNNTNNN GCTGTAAACC AAGTTGGAAG 120
 CTATTGGGAT AATTTCTTAA ATATTGATGA NCTTTGGAGT ACTGTTTCTN CCTTCAAAC 180
 GAATGTAATT AATNCATGAT TAAATGCACC TNATATGTTT AANCAATCTT TGTATACTTN 240
 TGGGNTTTTN 250

SEQ ID NO:3216

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03787

SEQUENCE DESCRIPTION:

GATCGCCACA CTGCCACTCT GCTGCCCAGC CACCAGGATT TCTGCCTGGA GCCCTTTGCC 60
 CTGTCCCTGC TGCCTGAGGT GGCCTAGAGC AGAGGAGAAG AATTTGCTCC AGGCCAGGAG 120
 CACAAATCGT TGTTCATGA ATTTNTCTCC AACTCGACCT TGGTAAACGG AAATNTTGGG 180
 GGTGAAGAGA AACAACTACT ATTTTTTNC TTTTATCTG GTAAATAATT AAAAGAAAAA 240
 CCGAACACTA AA 252

SEQ ID NO:3217

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03788

SEQUENCE DESCRIPTION:

GATCTGTATT GGATAAGGAC CAATGNACAG CAAAGCAAAA ATGGCTTTAA AGCTTGGTGT 60
 TACTTTTNTT AAGTTGTTTA ATTATAGTTA AGCAATTTCA AAAATGCTCC AAAGAAATGT 120
 GAAAGGACCT TTTGTACAG CACTTCAGAA AATACACAAC AGCCCCCTTCT GCCCCCGCAC 180
 AGAAATGCTG CAGAGTATAT AAAACTTGAG ACATTTTGT AGGATGCCTG ACGAGGTGTN 240
 GCCTTTTATC TTGTTTCCGG ATGCATATTT ATTACGAGTA CTCTGGTTAA ATATTGAAAA 300
 GTTATATGCT GTAGTTTTTA GTATTTTGT TTTGTN 336

SEQ ID NO:3218

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03789

SEQUENCE DESCRIPTION:

GATCTCGAGT GTTATTTTCT GATTGTGGTG TTGAGAGTTG CACTCCCAGA AACCTTTTGA 60
 GAGATGCATT TATAGCCCTA GGGGTGGTAT GACCCAAAGG TTCCTCTGTG ACAAGGTTGG 120
 CCTTGGGAAT AGTTGGCTGC CAATNTCCCT GCTCTTGGTT CTCCTCTAGA TTGANGTTTG 180
 TTTTCTGATG CTGTTCTTAC CAGNTTGGGA AAAAAGTGTG GATTAAA 227

SEQ ID NO:3219

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03790

SEQUENCE DESCRIPTION:

GATCTGCATA GAAAATTTN ATACAATTTT TTGAAAGTCC TTAGGTGAAA CATTTACCCA 60
 TTAAAAAGGA AGCAGAAATA CTGAGACATG AAAGGCATTA TCAACTAACT CTAGACTCTA 120
 GAACCCATTC TNGCATATCT CACGTGCAAT TTTTAAAAAT AAGTTAATAA TTCANCTCAT 180
 ATCAACAAAA GCCTTTGNNA CATGGGTTN CACTNGATAT CACCTAGTGC TNANGNTAGA 240
 NGCCAANN 248

SEQ ID NO:3220

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03791

SEQUENCE DESCRIPTION:

GATCCAGTGC TCTCCATCT AACAACTAAA CAGGAGCCAT TTCAAGGCGG GAGATATTTT 60
AAACACCCAA AATNTTGGGT CTNATTNNA AACTTTTAAA CTCCTACTG ATGATTCTNA 120
CGCTAGGCGA ATTTTTCCTACACATAGTG TGTGTNTTTT GTATACACTG TATGACCCCA 180
CCCCAAATCT TTGTATTGTC CACATTCTCC AACAAATAAG CACAGNGTGG ATTTAATTAN 240
GCAAA 245

SEQ ID NO:3221

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03792

SEQUENCE DESCRIPTION:

GATCCACCCG CGTTGGCCTC CCAACGTGCT GGGATTATAG GCGTGAGCAC CACGCCCCGC 60
CTAAATCCA TATTCAAAGA AGCAATTTCA GTTCCTTTCT AAGCTTTGTC AGTCAAGGGG 120
CTCCACTGAC TTCCTAGGCC CTGTAATTTA ACCAGTCTTT AAGGTTTTGC AGGAAAGTCC 180
CTTCTTCCAA GTGGTTTTTC CAAATCGCAC AATGGCAAAG CCAAACAGAG GAAGAAACAT 240
TAAA 244

SEQ ID NO:3222

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03793

SEQUENCE DESCRIPTION:

GATCAGATTG CTGAAACACT ATGGGAACAG GTATTGAAGC CCCTGGGTGA TAATNTAATG 60
GAGGAAAACA TAAGGCAGTC TGTAACAAAC TCTATCAAAG CAGGCCTGAC TGACCAGGTG 120
TCTCATCATG CCAGATTAAA GACAGACTGA CAGTTCATCT CCTCACGGAC TCCACTCTCT 180
TTTTTTTNA TGCTTGCTGT ACAATGAGAA CTCAAATAAA ANTAAACCAA AGTTTACAAT 240
CAAA 244

SEQ ID NO:3223

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03794

SEQUENCE DESCRIPTION:

GATCCAGGAG GAGCAGCACC CGAGCCCTGG AGTGGCCCAG TACCCTTCCA AGAGGCCACA 60
GTCCCAGCCA GGACAAAGTA TGGGGCCCAT CCTGGTGCGN CAGGTGGGAC AATGTGAACA 120
TGGACTCGAA GACATGGCCC TTTCTCTGTA GTTGATTTTT TAAATGTGCC ATTATTGTTT 180

TTAAAAAANN CGGNAAAANG AAANGCANAC AAATAAAACA CCTTTAAGAG GCTTGAANGC 240
GNCAAA 246

SEQ ID NO:3224

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03795

SEQUENCE DESCRIPTION:

GATCATAACT CATGAATATG TTTGTAATCA TGGTAATTTA GATTTTATG AGGAATGAGT 60
ATCTGGAAT ATTGTAGCAA TACTTGGTTT AAAATTTTGG ACCTGAGACA CTGTGGCTGT 120
CTAATGTAAT CCTTTAAAAA TTCTCTGCAT TGTCAGTAAA TGAGTATAT TATTGTACAG 180
CTACTCATAA TTTTAAAAAG TTTATGAAGT TATATTTATC AAATAAAAAAC TTTCCNATAT 240
AAA 243

SEQ ID NO:3225

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03796

SEQUENCE DESCRIPTION:

GATCTGACCT TTTTTTCCA GTTGAAATGT ATTAACACAC CTTCCACAAT NATTTTATAA 60
GAGTCAGCAT AACATAGTGG ATAAGAACTG TGAGATGTTT AACCTCTCAG TAACTCGGTT 120
CTCTCATTAT AAAATAGGAA TAAATCAGT ACCTGTTTCA TATGAAGGTC GTTCTGAGA 180
ATTAAATGGA CTAATGTATG CAAAAAGCCT GGCAACAAT AAACACTCAT CTGACTTTAA 240
A 241

SEQ ID NO:3226

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03797

SEQUENCE DESCRIPTION:

GATCAAAATA TATTGTCCA GAAACTCTTG GGCCAGTTCT CTGAGAAGGA ACTGGCTGCT 60
GAAAAGAAAC GCATCCTGCA CTGCCTGGGG CTGCAGAAG AAATCCAGAA ATATTGCTGT 120
TCAAGGAAGT AAGAGGAGGA GGTGATGTAG CACTTCCAAG ATGGCACCAG CATTTGGTTC 180
TTCTCAAGAG TTGACCATTA TCTCTATTCT TAAATTTAAA CATGTTGGGG AAACAAGAAA 240

SEQ ID NO:3227

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03798

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTNCAGCCT CCCAAGTAGC TGGGACTACA GGCACATGCT ACCATGCCCA 60

GCTAATTA AAAAATTTT TTTTGTAGA GACGGAGTTT CACTGTGTTG CTCAGGCTGG 120
TCTTGAATC CTGAGTTCAN GCAACCCTCC ACTTCAGCTT CCCAAAGTGC TGGGATTACA 180
GGCATCACTG GCCCAGGCAG AGCCAATTNT GTATAATAAA TCTGTNTCTC TCTGTCAAA 239

SEQ ID NO:3228

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03799

SEQUENCE DESCRIPTION:

GATCAAAATT NATTGAATGG TTTGAGGTTG TAGCTCTATA AATAGTAGTT TTTAACATGC 60
CTGTAGTATT GCTAACTGCA AAAACATACT CTTTGTACAA GAGGTGCTTC TAAGANTTTN 120
ATTGACATTA ATGACACTGT ATACAATAAA NGTGTAGTTN CTNAATCGCA CTACCTATGC 180
AACACTGTGT ATNAGGTTTA TCATCCTCAT GTATTNTNNT GTGACCTGTA TGTNTATN 238

SEQ ID NO:3229

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03800

SEQUENCE DESCRIPTION:

GATCCAAAGC CATCCAGAC CTTCCCGGGC CCCTCTTCCT GGCAGATGAC TCTCCCGGCT 60
TCTGCGTCCT GCCTGCCCAT TCATACCAGT TTGAACTGCA ACAGCCTAGC TCCTCACCTG 120
TGCACCTCCT TCCCCAGGTG TGCACGTCTC CAGCCCCGAG CGCGTGTCTT CCTGCTCATC 180
TGGGTTTCCT GGGCAAAATAG TGGCCCTCAA TAAATNTTTG CTGAGTGAGA ACATAAA 237

SEQ ID NO:3230

LENGTH:515

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03801

SEQUENCE DESCRIPTION:

GATCGCCAGA GCCCAGGAGT TTGAGGCTGC AGTGAGCTAT GAGGGTGCCT CTTTGCTCCA 60
TCCTAGGCAA CAGAGTGAGA CGCTGTTTAA AAAGGAAAAA ATCCTTCNT AGAGCTAGTA 120
TCCTAAAGCT GCAGAGCTAG CCCATGACCT CATTGGTTTC NTTGTCCTG GGGTGCCTTT 180
CCTGAATCTT TGGGGGTGAA GGGAGTNTTG CTCCCAGTCC AGAGGCCTGA TTCTTTTCGG 240
ACTGGGTCTT CAAGACACGA CCAGGTTCTC AAGACACGAG TCCCCTNTT CCTNCCCATT 300
AAAGGGGGTT TNTNAGAAGC AAGANCAGCC CCTTTCCCA AGTCACAGCC TGAAGGGAGG 360
CCCCNGAGAN GCTTCCCTCC TTTCCCNCA CCCTGNTTCC TTAACCTNT TTTGNCCCTG 420
NTTTTTTTAG GAANCTGNA GTTTCAATTN GTTTTTAANG GGGGATTGGG GGGGAAGGGA 480
AGNCTTNGGG GGACAAAAA NNTTTTNTT NCAAN 515

SEQ ID NO:3231

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03802

SEQUENCE DESCRIPTION:

GATCAGTGTA TCGAAAAAGG TTTTtagGAA GTATGGCAAA AATGTTGTAT TGGCTATGAT 60
GGTGACATGA TATAGTCAGC TGCCTTTTAA GAGGTCTTAT CTGTTCAAGT TTAAGTGATT 120
TAAAAAATA ATAACCTGTT TTCTGACTAG TTAAAGATG GATTGAAAA TGGTTTTGAA 180
TGCAATTAGG TTATGCTATT TGGACAATAA ACTCACCTTG ACCTAAA 227

SEQ ID NO:3232

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03803

SEQUENCE DESCRIPTION:

GATCACTAGC TAATNCTCAT ATCCATGCCT TTTTGTCTG TTTACAGTCT TAAAAGAGGT 60
AAAACAGCAA ATATTTTTN AAGGGAATA TAACCTTAGG ATTCCTGAAA ANAATTCAA 120
AAAAAATA AAGACACTGT TGCCAATGTG NCCCAAACT TAAGACCATA CTAATGGCAT 180
ATATTTGTNA CAATNAAAAA TTAANTTTAC TACTTAATCC TAAA 224

SEQ ID NO:3233

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03804

SEQUENCE DESCRIPTION:

GATCGGTGCT TTGTGTAAAT ACATCTTTAA CATTGGGTG GAGAGGGGCC TTAAGAAGGA 60
CAGTTCATTG TAGGAAAGCA ATTCTGTACA TGAGTTTAAAG CATTCTTGT GCATTGTCTC 120
TGCAGATTCT ATTTTGTGTT ACAATATTAA AATGTATGTN AGCAAAATGG GTGGATTTTC 180
AAATAAAATG CAGCTTCCAC AAAAGTTTG TNATGGTATT CTGGTCTGAG ATGCATTNC 240
ATTTTNCCTN TCTCTNTTA TTATCAATAT TGTNATTTT CCCTAATAAA ATATACCCAG 300
GTGNATTAAA 310

SEQ ID NO:3234

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03805

SEQUENCE DESCRIPTION:

GATCAAAATTT TTNAGACAAT CCTTGGTCTG GATTGGTTAA TGAATNTN TTGTTAAGA 60
GGTTCATTA AAAATATTT CTAGTGTATT AGTCATAATT NTTTTGTGG AGTGGGGTA 120
AACCACACCA TTAAGGGAAT AAAATGTAAT TTGAAAGAGG TGATTATAAG ATTTGTTCA 180
GGCCCCAAAA TATAAATAA AATTGGTGTG GAATCTCAA 220

SEQ ID NO:3235

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03806

SEQUENCE DESCRIPTION:

GATCGATACA GAGCATCTGC ACTGGGATTG TCCGCCCCGC CTGTCAGGGA GGCCTCGGGG 60
GCTAATNGAG CTGAGGGTAT AGTCGGCCTT GGACCCTCGC TTTTTCCTT TCCTGTACTA 120
TNAAGATAAC TGCCTTATCT CCCCCTCAGG ACTGTTTGG GGATTAAATA GGACGTTTAA 180
ATNACCAACG CTCTTTGAAA TAAACATTTC AAAATTAAA 219

SEQ ID NO:3236

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03807

SEQUENCE DESCRIPTION:

GATCAAAAAA ACTTTTCTTC TTTTGCAAAG AAAGCTTTTT GTTTTAAACN GCAACGTACT 60
TTTCCCTAC CTGAAGAGA CATGGTGGTC GCAGCTCTN ATCTATATGA AAAAGTTTTC 120
GATGTATTGG AATNATTGG GAATGCTTTT AAAACAATTT GTAATTATTT CTTTACAAAC 180
CAAAACAGAA CAGAAAGGTG TGGTGCTGGA ACATCGAAA 219

SEQ ID NO:3237

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03808

SEQUENCE DESCRIPTION:

GATCTGCATT TTCAGAAGAG GACAATCAAT TGAACCTAAG TAGGGGTTTC TTCTTTTGGC 60
AAGACTTGTA CTCTCTCACC TGGCCTGTTT CATTATTTG TATTATCTGC CTGGTCCCTG 120
AGGCGTCTGG GTCTCTCCTC TCCCTTGAG GTTTGGGTTT GAAGCTGAGG AACTACAAAG 180
TTGATGATTT CTTTTTATC TTTATGCCTG CAATTTTACC TAGCTACCAC TAGGTGGATA 240
GTAAATTAT ACTTATGTTT CCAA 265

SEQ ID NO:3238

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03809

SEQUENCE DESCRIPTION:

GATCTACTAT AAGGTATTCT ATATTTATAT NACTTCAGAG ACGCGTATGT AATAAAGNAC 60
GCCCTCCCTC CAGTGTCCAC ATCCAGTTCA CCCCAGAGGG TCGGGCAGGT TGACATATTT 120
ATTTTGTCT ATTCTGTAGG CTTCCATGTC CAGAATCCTG CTTAAGGTTT TAGGGTACCT 180
TCAGTACTTT TTGCAATAAA AGTATTTCTT ATCCAAA 217

SEQ ID NO:3239

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03810

SEQUENCE DESCRIPTION:

GATCGGTGCT ACCAAGGAAG AGAGCACACA GATAAGACAG AGGGGAGGAG GTGGGCATT 60
CCTACATTCC TCCTTGTTN CCGCTGCTGA NATTGCACTA TTTATTGCAA TNTAAATNTA 120
TCCTGAAGGT GGGGAGGAAT GTTAAANCTA CCAATNTCCGT GTGTCATCTT GGTNTGTTTT 180
TNTCCCTGTT TGTAGCAAGA CTCTNATGAT AATNCTN 217

SEQ ID NO:3240

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03811

SEQUENCE DESCRIPTION:

GATCTATATG AAGTGGGAAT ACAGCATATA TCTGGATATT CTTATAGTTA TCTTTTAAAC 60
ATCTTATTTT TTTCATTAAT TACATATCAA CATTAAATNT GTATCTNGAA GCAAATNGAT 120
TTTGATAAT TAAATGTGTC AAGCATCTGT ATTAATTGAT TNGATGGCAT AAGGTATGAA 180
ANTANTGTAC TGCCCCATGT ATNACTGTTC CAACCAN 217

SEQ ID NO:3241

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03812

SEQUENCE DESCRIPTION:

GATCATAAGA CCAGGAGTTC AAGACCGGTC TGGCCAACAT GGTGAAGCCT CATTNTACT 60
AAAAATACAA AATNAGCCAG GTGTGGCGTC ACATGCCTGT AATCCCAGCT ACTCAGGAAG 120
CTGAGGCAGG AGAATTGTTT GAACCTGGAA GGTGGAGGTT GCAGTGAGCC GAGATTGTGC 180
CACTGCACTT GACAGAGCGA GACTCTGTCT CAAA 214

SEQ ID NO:3242

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03813

SEQUENCE DESCRIPTION:

GATCATCGAG GACGAGAAGA TGGTGGTGGT GGCNTGCAG CCGACTGCAG AGCTNGAGGT 60
GGGCTCGGCG GAGGTCATTG TGGAGTCCCT GGGCCAGGNN GGCCTGGCCT CCCAGCTCCC 120
CGGCCAGAGA CTGTGTGCAG AGNAGAGCTT CACCGGCCAG GTGCTCTGGA GCCCTCCCTC 180
ATNATNACAG CTGCTGTCCC CGAGGACTGT GATN 214

SEQ ID NO:3243

LENGTH:212

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS03814

SEQUENCE DESCRIPTION:

GATCTGGGGA GCTNTGACTG AAGGGGCTTG GTCTTCCACT CAGCATCAGC NTGGCAGTCA 60
 CCACCCCACT NAGGACCTCG ATGTCCAGCT GCTGTCAGGT CTGATAGTCC TCTGCTAAAA 120
 CAACACGATT TACATAAAAA ATCTTACACA TCTGCCACCG GAAATACCAT GCACAGAGTC 180
 CTTAAAAAAT AGAGTGCAGT ATTTAAACCA AA 212

SEQ ID NO:3244

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03815

SEQUENCE DESCRIPTION:

GATCTCTGTA GACTAGAGTC TTGCAGCAAC ACAGAATGTA ATATAAGGCA AATGCATCTG 60
 GGACTTGACC AAAGTTGTTT TGTTTTGTTT TTTTAACTGA AAGTAACAGA AGGACCTTTC 120
 TTAATGTGA CAGATGGTCC TGCAGTGTGA ACCTGAAGGA CAGTGTTAAA GCTGGGCTCT 180
 AGTATATTGA TGATTCTGC ATAAGTGTGG N 211

SEQ ID NO:3245

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03816

SEQUENCE DESCRIPTION:

GATCTATTTT TGCAGTGGAA TATCTGAGAA TTGCAAACT AGACAAAAGT TTCACAACAG 60
 ATTTCTAAGT TAAATCATTT TCATTAAAAG GAAAAAAGAA AAAAAATTTT GTATGTCAAT 120
 AACTTTATAT GANGTATTAA NNTGCATATT TCTATGTNGT AATATANTGN GTCACAAANT 180
 AANGCTGTGA CAGTNCTGTT GGTCTACAAA 210

SEQ ID NO:3246

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03817

SEQUENCE DESCRIPTION:

GATCTTTTAC CACTAAAAGA GCATTATTCT CATGTCATAA TGAGAATAAT AATTACATA 60
 CTTGGCATAA TAAATGCCTA AAAGACATTT TATTNTCTGA ATCTATTTTT TTCTTGCTAT 120
 AATGGGGATA TTGTAAATAA TGCATTGTGA TTAATGGTAT TTCTTAAAGC AATCTATGTA 180
 ACTGTAAATT AAACCAATCT ACAAACTAAA 210

SEQ ID NO:3247

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

01101

CLONE:HUMGS03818

SEQUENCE DESCRIPTION:

GATCAGAAGT GGCTAATTTA TTTNATTCT NATTATTTTA TCCAGAGGGT ACTTTTTTAA 60
TGGATATTTG TAAATCTNCC ACTTAACCAC TGAAAATAAT NTTNTTTTAA TCCCACCCTT 120
CCATCCATAC CTCTGCCTCC CCAAAAAGCT CCTATNAATT TNCTTATCCC CCTCATGTAG 180
CTAGTTGAAT GTGAATAAAT AACATGGAAA 210

SEQ ID NO:3248

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03819

SEQUENCE DESCRIPTION:

GATCTCCATT CTTTGCCATG AGGGCCAACA CATGAGACCC CACCTCCCTC CCTGCCTGCC 60
AGCCCTAGAC TTGTTGGAGC ATAGAGCCCT TCCTCCCCAG GCCTAAGTAT GTGGAGCTCT 120
GCTTTGGCAC TGCCCCGCAG AGGCCACGCC TATTTATTCT GTTCTNTTG TTTTGT TTTT 180
AACAACTATA CTTTGCACAC ATGAAA 206

SEQ ID NO:3249

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03820

SEQUENCE DESCRIPTION:

GATCCCCAGA GTTGGTCCAA GGAGGGAGAG TGGGTCTCA ATACGGTACC AAAGATATAA 60
TCACCTAGGN TTACAAATAT TTNAGGACT CACGTAACT CACATTTATA CAGCAGAAAT 120
GCTATTTTGT ATGCTGTAA GTTTTCTAT CTGTGTACTT TTTTAAAGG GAAAGATTTT 180
AATATTAANC CTGGTGCTTC TCACTCAA 209

SEQ ID NO:3250

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03821

SEQUENCE DESCRIPTION:

GATCTGTGTG GTCCCCGACG TAACATCTGG CGAGACCCTG CCCTCTGCTG TTACCTGAGT 60
CCTGGGGATG AACAGGTCAA CTGCTCAAC ATCAATTATC TGAGGAACGT GGCTCTAGTG 120
TCTGGAGACA CTGAGAACGC CAAGGGCCAG GGGGAGCNGG GCTCAACTGG AGGAACAAAT 180
ATCAGTCCA CCTCTGAGCC CAAGGAAGAN TGAGTCACCC CAGAGCCCTA GAGGGTCAGA 240
TGGGGGGAAC CCACCCTGCC CCACCCATCT GANCACTCAT TACACTAAAC AACTTTTTTG 300
GNAANTNTNA TNTATGATGN GNNGNGNGTG GGGAN 335

SEQ ID NO:3251

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03822

SEQUENCE DESCRIPTION:

GATCTAATTC TNCACCTCTG CTCCAAGGGC TGGGCTGTGG GTGGGATACT GGGATTTTGG 60
GCCACTGGAT TTTCCCTAAA TTTGTCCCCC CTTTACTCTC CCTCTATTTT NCTCTCCTTA 120
GACTCCCTCA GACCTGTAAC CAGCTTTGTG TCTTTTNNCC TNTNCTCTCT TTAAACCAT 180
GCATTATAAC TTTGAAAGCA AAACAAA 207

SEQ ID NO:3252

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03823

SEQUENCE DESCRIPTION:

GATCTCATTT NAATGATTTA TAGGTAAATA CTAATCAGAC ATTATTAATA GCAAAACAGG 60
AAAAAGGTAA ACTTCTTAAA TTTAGTTACC TATAAAAATT GTCAATNTTN ATTCTTTAAA 120
AACACATGGA CTTACTATAA AAGCCTTTTT GTACTAGTGA AAAGAATCTT CAGCTATATA 180
GAAATAAAGT TATACTTTAA A 201

SEQ ID NO:3253

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03824

SEQUENCE DESCRIPTION:

GATCCCTAAA AGACAAAAGA GTCTTGAAA GGACTGCTGG CTCGTCTTG AACGTTTCGCC 60
CCATCACCAG TGTGAGTCCG TGGGGAAGTC TTCCTCAAGT GGGGTTTCAGT CTGTAATTTT 120
CCTGTCTGTT CTTAGCNNG TTCTGAGTTA TTTTGGATT TNTTCTTTAG CCAAATAAAG 180
GCAGTGTGGT TTTACCTGAA A 201

SEQ ID NO:3254

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03825

SEQUENCE DESCRIPTION:

GATCCTAATG GTGCTGCCCT ATTTATACCT GGGTCTGCAT TAAAAGGGAA AGCCCCCCT 60
GTTGTAGATT TCATCTGCTT CCTCCTTAGG GNAGGCTGGG ATATGATGAG AGATTCCAGC 120
CCAAGCCCGG CCCCCACCG CCAGGCCATA GGGCATANTT TGCATCTCAA ATCTGAGGAA 180
TAAACTGATG ACCTGTGAAA 200

SEQ ID NO:3255

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03826

SEQUENCE DESCRIPTION:

GATCAAGCAT TTGCGTTTGG ATGGCAATCG CATCTCAGAA ACCAGTCTTC CACCGGATAT 60
 GTATGAATGT CTACGTGTTG CTAACGAAGT CACTCTTAAT TAATATCTGT ATCCTGGAAC 120
 AATATTTTAT GGTATGTTT TTCTGTGTGT CAGTTTTCAT AGTATCCATA TTTTATTACT 180
 GTTTATTACT TCCATGAATT TTAAATCTG AGGGAAATGT TTTGTAAACA TTTATTTTTT 240
 TTAAAGAAAA GATGAAAGGC AGGCCTATTT CATCACAAGA NCACACACAT ATACACGTT 300
 AGACATCAAA CTCAATGCTT TATTTGTNAA TTAGTGGTT TTNTATTTCT ACTGTCAAAT 360
 GATGTGCAAA ACCTTTTTNC CGGGTTGCAT N 391

SEQ ID NO:3256

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03827

SEQUENCE DESCRIPTION:

GATCTTTAAT TTGNATGGTG ATGAATGTCT TAGTCATGAA GAGTTTCTAT GGGGTGTNAA 60
 AAAACAGAAT GCATCGAGGT TNATGGGTAC CACAACATCA GAGTATACAA GAATACTGGA 120
 AGTGTGTGAA GAAAGAAAGC ATTAAAGGAG TAAANGANGT CTGGAAACAN GCTGGAAAANG 180
 GTCTTTTTNA ATNN 194

SEQ ID NO:3257

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03828

SEQUENCE DESCRIPTION:

GATCTAGTAG GTTCTATTT TTCCTTTCTC TTTACAATGC ACATAATACT TTCCTGTATT 60
 TATATCATAA CGTGTATAGT GTAAAAATNG AATNACTTTT TTTGTGAATG AAAATCTAAA 120
 ATCTTTGTAA CTTTTATAT CTGCTTTTGT TTCACCAAAG AAACCTAAAA TCCTTCTTTT 180
 ACTACACAAA 190

SEQ ID NO:3258

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03829

SEQUENCE DESCRIPTION:

GATCCCTTT TNTNCTGGAG CTTCCGTGCC TCCCCTGCCT CTCCCAGCC CTGTAATCC 60
 TCCTTCACAG GCCAGCCAGA TACCTGTNTG GCCTNTGGGC CCATTTTNTT CCCTGTCTGT 120
 CCCCACCCCA CAAGAACCAG GTTCTNTAA TAAATTCTCT CCCTTCTTTA GCCAGGACTT 180
 AGCCCGCAAA 190

SEQ ID NO:3259

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03830

SEQUENCE DESCRIPTION:

GATCTNAGAG CCTGCCCAAC AGCAGGGAAG CCAAGCACCC ATTCATCCCC CTGCCCCCAT 60
CTAACTGCGT ANTGANAAGG GGAACAGTGC CATGTACCAC ACAGATGTTT CTGTCTCCTC 120
GCATGGGCAT AGGGACCCAT CATTNATGAC TGATGAAACC ATGTAATAAA GCATCTCTGG 180
GGAGGGAAA 189

SEQ ID NO:3260

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03831

SEQUENCE DESCRIPTION:

GATCCCCTTC CTATCAATCA CCTGATAGCA ACAGGGACAG CTGCCAATAC CCTGCTCTTT 60
ACTCAATGGT ACCCAGGGAG GGAGCATGGG AAGAGGGTGA GCTGAGGGCT GGAGGAGGGC 120
AACAGCCACT GGGTGAGCTG TTCACGGTCT TATACTATTG TTTGTNATTA AAAGTGCTTC 180
AACCCTAAA 188

SEQ ID NO:3261

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03832

SEQUENCE DESCRIPTION:

GATCAACAAG GCCACGCCCT ACAACTACCC AGTGCCCGTC CGTGATGATG GGAACATGCC 60
CGACGTGCC AGCCACCCCC AGGACCCTCA GGGCCCCAGC CTGGAGTGGC TGAAGAACT 120
GTGAGCACCT CCACTGACAG AGGCGGCCCC TCCCACGGNT CCCAATAAAA ATGTGAAAAC 180
CAAA 184

SEQ ID NO:3262

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03833

SEQUENCE DESCRIPTION:

GATCCACCAA TGTTCAAAT AGGACTATAA CTTATTCAAA GGCCAATNAT ACTTCGCATA 60
ATTCAATTTT AATATTATTC ACATTTTCATG TCACAAATTT AGTAAGTTAC ATGTGTTATG 120
TGATGTTTTG TTTTGATAGA TTATATCTTA CTCCTAAATA AAANGTCAAG ATTTTGTAG 180
CAAA 184

SEQ ID NO:3263

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03835

SEQUENCE DESCRIPTION:

GATCTCTCTG TGTGGAATGC CTTGGTGAGA GAGATGCTTA TAATNACTAT NATNATTCT 60
AACCAAGCTT CTATNAATNT AATTCTAAT AATACACTAT CTTGATTGTA CTCTCCAGAA 120
AATTTTCTG TCAGTGAAAA TAAAAGAAAA ATTAAAGTAA AGCTAAGGAA CTGTCTATAA 180
A 181

SEQ ID NO:3264

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03836

SEQUENCE DESCRIPTION:

GATCCCTGGA CCATCTGCAT CCAGAGGACC GTCCGTAACG GCCGGGGGTC CAGGCGGACC 60
TTGTGGTGAC CCGGCTCGGG CNTNTCCTCG GTTTCNTTGC CTCACCCGCG GAGAGCGCTG 120
AACCTGGACA AGCAGCGGCT GGNAAGNACA GGTCCAATAA ACGCCCTCTG CGCCCAGAAA 180

SEQ ID NO:3265

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03837

SEQUENCE DESCRIPTION:

GATCTAGTTC AGAAGGAAGC AAAATCCCTT AATCTATGTG CACCGTTGGG ACCAATGCCT 60
TAATTAAAGA ATTTAAAAA GTTGTAATAG AGAATATTTT TGGCATTCTT CTAATGTTGT 120
GTGTTTNTT TTNGTGTGN CTGGAGGGAG GGGATTTAAT TTNAATTNA AAATGTTTAG 180
GAAATTTNTN CAAGGAANCT TTTTAATAAN GTATATNGAA AGNTAAA 227

SEQ ID NO:3266

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03838

SEQUENCE DESCRIPTION:

GATCACTTCT CCTTGGCTTC CTTCTTTTCT GTGCTTGCAT CAGTGTGGAC TCCTAGAACG 60
TGCGACCTGC CTCAAGAAAA TGCAGTTTTC AAAACAGAC TCAGCATTCA GCCTCCAATG 120
AATAAGACAT CTTCCAAGCA TATAACAAT TGCTTTGGTT TCCTTTTGAA A 171

SEQ ID NO:3267

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03839

SEQUENCE DESCRIPTION:

GATCACTTTA TTTGCTAGGG AGGGAAGTCC TAGGGTGGTT TCAGTTTCTC CCAGACATAC 60
 CTAAATTTTA ACATCAATCC TTTTAAAGAA AATCTGTATT TCAAAGAATC TTTCTCTGCA 120
 GTAAATCTCG CAGGGGAATT TGCCTATTA CACTTGAAAG TTGTTATTGT TAACCTTTTC 180
 GGCAGCTTTT AATAGGAAAG TTAACGTTT TAAACATGGT AGTACTGGAA ATTTNCAAG 240
 ACTTTTACCT AGCACTTAAN TATGTATAAN TGTACATAAN GACAANCTAG TAAGCNTGGC 300
 CTGGGGANAT GGTCAAGCCT TGTNTTGTGT TTTTGGCN 338

SEQ ID NO:3268

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03840

SEQUENCE DESCRIPTION:

GATCATAGGA GAAAACCATTCANATGACA AGAGCACCTC AAAGGCAGCA GCCTCAAGGA 60
 GCAGCCATGG CCCAGACTT GTCGCACGGA TGCAGAAAAC TTAATGGAGG AGGCTGAGGT 120
 CAGAATGGGA AGAGTTTTTA AAAAATAAAA AGGGGAGCTA ATATGTGAAA 170

SEQ ID NO:3269

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03841

SEQUENCE DESCRIPTION:

GATCAAGGGC AAAAAGTGGT CATTAAAGTNA TCTAANATTA AATNATTTAG CCACTAAGTA 60
 ATTTNTTTAC TCTNACTTTA AACTCACCAA AGAAGATTCT TTTAAAGAAA TTATGAAAAA 120
 TGTACAATTT AACATTTTAA ATAANTAGTG ACAGANGTTG TTTATAAA 168

SEQ ID NO:3270

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03842

SEQUENCE DESCRIPTION:

GATCCTCCTG CCCAGCATT CCAAAGTGCT GGGATTACAG GTGTGAGCNA CTGCCTGGCC 60
 TGGCCGTAGG TTTGTAAGT TTTTCATAGAA GAGCCCTGGA GAAGACAGTA GAATNAGCCT 120
 ATCTAGTTTA AAAAATAAAG AAGCACGTTG ATTCACCAC CGCCAAA 167

SEQ ID NO:3271

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03843

SEQUENCE DESCRIPTION:

GATCAGCTTT GTTTTCCCA GAGTTCATGC AAATAGAATC TGGCTTCTNT AAGTNAGCAT 60
 CATGGACTTG GTTNAAATTC GCCCGTNTTG CTGAGTGTAT CTTAGCTTG TCCCTTTTAA 120

CTGACGAGTA GTATTCCACA GTNTGGATGC ACTGTATTNN NTTTATN

167

SEQ ID NO:3272

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03844

SEQUENCE DESCRIPTION:

GATCAGAGCA TTGTGCAATA CAGTTTCATT AACTCCTTCC CCCGCTCCCC CAAAAATTG 60
AATTTTTTTT TCAACACTCT TACACCTGTT ATGGAAAATG TCAACCTTTG TAAGAAAACC 120
ANANTAAAAN TTGAAAANTA AAAACCNTAA ACATTGTCAC CAGAAA 166

SEQ ID NO:3273

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03845

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTCCCTTCT TGTATCATCC CTTTGGGTTT TTCGGTTTGC TTGGGTTTTT 60
AATTTNCTT TGTTTTNCCT ATAAATCCTG TTTAATCTT ATAAGGGAAA ATNCATTTTN 120
TTCAACTGTN CTAGTTAATA ATGAGAATC AATTNCTGGA AATNN 165

SEQ ID NO:3274

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03846

SEQUENCE DESCRIPTION:

GATCTCAGGA ATNACATTTT CCAACAGACC AAAAAATGTT TTCATGTAGC AGCAATGCAG 60
ATTTGGTGAA TATTTAATAT ATATTTAAGT ATGTATTCA CTTTATNACT GACAATNAAA 120
AAATATTGTT TGGCCAAATA GTAAACACCC TTTTGAAACC AAA 163

SEQ ID NO:3275

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03847

SEQUENCE DESCRIPTION:

GATCCCTTNG TTTGCTTAAT AAATTATAAA ATAATGGCTT GGAAAAGCAG GCTAGTCTAA 60
CCATGGTGCT ATNATNAGGC TTGCTTGTTA CACACACAGG TCTAAGCCTA GTATGTCAAT 120
AAAGCAAATA CTTACTGTTT TGTTTCTATT AATGATTCCC AAA 163

SEQ ID NO:3276

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03848

SEQUENCE DESCRIPTION:

GATCTGTTCT TGGTATTNN TTTTGTGTTT TTTTGGTTTT TAAATGTAAT CACCCATTGG 60
TCAGGCCAG GACTGGTCAC CATGAGCTCT GCTAGCCACG GCCCAACGA TGCTTCCGGC 120
TCTCATGGAT TCCACAGCAA ATAAACTGT GCTGACAACA GAAA 164

SEQ ID NO:3277

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03849

SEQUENCE DESCRIPTION:

GATCTGGGGT CCCTAAGTCC CTCTCTTTAA AGAACTTCTG CGGGTCAGAC TCTGAAGCCG 60
AGTTGCTGTG GGCCTGCCCG GAAGCAGAGC GCCCACTCG CTGCTTAAGC TCCCCCAGCT 120
CTTCCAGAA AACATTAAAC TCAGAATTGT GTTTTCAGCA AA 162

SEQ ID NO:3278

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03850

SEQUENCE DESCRIPTION:

GATCCTAGGA ACTCCTATNT TCAGAAAAGA ATTTNTTCC TACTATATAA TTACAGTATT 60
TAGCTGTCAA TTTAAGATG AATTGGTAG AGCCTTATAG TAAAGNATGT ATCTTGGTCA 120
CACACAAAGC TTGGAAAAAG TAAAGATGT CTAAACCATA AA 162

SEQ ID NO:3279

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03851

SEQUENCE DESCRIPTION:

GATCAAGAAG TAGCCGAGGT TGATAAAAC ATAGAACTTT TGA AAAAGAA GGATGAAGAA 60
CTCAGTTCTG CTCTGGAAAA AATGGAAAT CAGTCTGAAA ACAATGATAT CGATGAAGTT 120
ATCATTCCA CAGCTGCTCA ATAAAGTACA AGAGCTTAAA 160

SEQ ID NO:3280

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03852

SEQUENCE DESCRIPTION:

GATCGTGGGT CAGGGACACC GAGAGAGTGA GGTCACCTCC ACTTCAAACC TTCAGTGAGG 60
GGGTGGGATG GAGAGAATGC TGAATCTTTT TTTNACGGG ATGGGGTTTT CNTCTTTGTA 120

ATTATNNCTT TAGTTTAATT AACCTTTTGG TTGTTTGTNC AATATTATAT ATNNNAN 177

SEQ ID NO:3281

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03853

SEQUENCE DESCRIPTION:

GATCAGGACT ATAATATTGT ACAGTTATTA TAGGGCTTTT GGGGAAGGGG AGGATAGCGA 60
 GAAGATGCTC TGGGGGTTTT GTTTTGCTT TTCCTTCAGG GTTTATTTT TGACTGTTTT 120
 GTTTCTNGT NGGCCATTTT TGTATTGCTG GCATCTGTGC TAAGCTTTAC AGTGGCAAAA 180
 ATAATGACAT GTAGCAAAGA TTTTCAAACA AAATATTTT NCCTTTTGTA AA 232

SEQ ID NO:3282

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03854

SEQUENCE DESCRIPTION:

GATCGATGGT GGCCTTTTCT CCTGTGCCCA CCCGTCTTCA ATCTCTGTTC TGCTCCCAGA 60
 TGCCTTCTAG ATTCAGTGC TTTTGATTCT TGATTTTCAA GCTTTCAAAT CCTCCCTACT 120
 TCCAAGAAAA ATAATTAATA AAAAACTTC ATTCTAAA 158

SEQ ID NO:3283

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03855

SEQUENCE DESCRIPTION:

GATCTCATCA CAAGATGACC AAAAGAGTTT GAACTGTGTG TGCTATTTAG AAGATTTAAC 60
 TTTNATGTAT CTATAGATAC CACAGCTGTT GCTTCTAATA AATTACCTA CCTTTNAACT 120
 GAAAGTTTAA TAAAGCCAAA TCAATTGAA ATACCAAA 158

SEQ ID NO:3284

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03856

SEQUENCE DESCRIPTION:

GATCTGCCTC ACGTGCCTG TGGTGGCCGT GTGCTACGGC TCCTTCTACA ATCTCCTCAC 60
 CCGAACCTTC CACATCGAGG AGCCCCGCAC AGGTGGCCTG GCCAAGCGGC TGGCCAACCT 120
 TATCCGGCGC GCCCGAGGTG TCCCCCACT CTNATTCTNG CCCTTTCCAG CAGCTGCAGC 180
 TGCCGTTTCT NTCTGGGGAG GGGAGCCAA GGGCTGTTTC TGCCACTTGC TCTCCTCAGA 240
 GTTGGCTTTT GAACCAAAGT GCCCTGGACC AGGTCAGGGC CTACAGCTGT GTTGTCAGT 300
 ACAGGAGCCA CGAGCCAAAT GTGGCATTG AATTGAATT AACTTTAGAA ATTCATTGTC 360

TCAACTTGTT AGTGGCCACC TCTTATATTN

390

SEQ ID NO:3285

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03857

SEQUENCE DESCRIPTION:

GATCTCAACA CCTATGCCTC CACGTAAATT ATTTTTTCA GCCTTATTC CCTCAAATT 60
GTAGAGTCCT AATCTTCTC TATCTTGTGG TGTGAGACCT TGGATAAGTC TCCCTTCCAC 120
CTTTCCTAT TACTTAAAT GGTGAATTG CATAAA 156

SEQ ID NO:3286

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03859

SEQUENCE DESCRIPTION:

GATCAGGTGA TTTGTAAAT TGTATTTATC TGTACATGTA TGGGCTTTTA ATTCCACCA 60
AGAAAGAGAG AATNATCTT TTTAGTTAAA ACCAAATTC ACTGTTCAA NTATCTTCA 120
ACTTATTTAT TGGGTTGTCA CTC AATTGCC CTGTN 155

SEQ ID NO:3287

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03860

SEQUENCE DESCRIPTION:

GATCTTGCAA CTCATTTCG GAAGACACCG AGGAAGAGGA GGAAGATGAA GACCAGGACT 60
ACAGCTTCC TATATCTCCT ATTCTAGAGT GGTAACCTCT CTNTAAGTNT TCAGTGTTGA 120
CATAGCCTTT GTGCAA 137

SEQ ID NO:3288

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03861

SEQUENCE DESCRIPTION:

GATCAGTGGG CACAGTTCTT CAGCTACATT GAGACCCTGA AATAACAAT NATATTCTNA 60
CTCGACATCT TGTCCTCAAT CCTTCAAAA ATATTGATGG TGATTGTGC TACCATTAC 120
TCGTTTATTT AATAAGACA TTCAATCCCA AA 152

SEQ ID NO:3289

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03862

SEQUENCE DESCRIPTION:

GATCAGNATT GTACGTATTC AAGGTGTAAT ATNTGATAAT TTGTCGTACA CGTACATTGT 60
GCAATAACAG TCACAATNAA TTCCTCAGCG CACCCATCAC CACGAATACG ATACATTAGA 120
TATTCTGAAC TTGCTCATCT TAGGACTTCA AA 152

SEQ ID NO:3290

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03863

SEQUENCE DESCRIPTION:

GATCATAATA GTGACCAAAA TATACATGCA GACTTGTTTT TTATTATTGT TGTTTAAGCA 60
TAATTTAAGA AAAAAAATTT TTACCTGGTG AACTTGCTAT CTGCTCTGTT TCTAGTTAAA 120
ANATAATANA TTTTATCTNC CCTGTGCTGT AAA 153

SEQ ID NO:3291

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03864

SEQUENCE DESCRIPTION:

GATCTTCTTT CTTTTTACAG GAACAATTGG CTTCTTTGCA TGCTTTTGGT TTGTNACCAA 60
AATATACAGT GTGGTGAAGG TTGACTGAAG AAGTCCAGTG TGTCCAGTTA AAACAGAAAT 120
AAATTAACT CTTTCATCAAC AAAA 144

SEQ ID NO:3292

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03865

SEQUENCE DESCRIPTION:

GATCATGGTG AACTTACCAA AGCAAACAAT GCCTGTAAGA TGGTCCTGCA GCAGCCAACC 60
AGTGAACCTCT TTTGGTGACA TCCTGTTCTT GTTGATAAC TTTATATTCC TATAAATCCA 120
TTAAGGCCCC AATAAAGTTT GTCTCTAAGC GCTGTGTTAG AAA 163

SEQ ID NO:3293

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03866

SEQUENCE DESCRIPTION:

GATCCAAAAT TAGAGCTCAT CAGANTTGTC ATTGAAAGTG TTAACAAAAG TAATATCAAA 60
TGACATTGA AAAATATCCT TGTAATAATGA CTATATTAAT AGGTATAAGG NTTTTCTTA 120

TTAATCTAAT AAAATNCCTT AATAGGAAA

149

SEQ ID NO:3294

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03867

SEQUENCE DESCRIPTION:

GATCAGGACA CTTAGCAAAAT GTAAAAATAA AATCTAACTC TCATTGACA AGCAGAGAAA 60
 GAAAAGTTAA ATACCAGATA AGCTTTTGAT TTTTGTATTG TTTGCATCCC CTTGCCCTCA 120
 ATAANTAAAG TTCTTTTTTA GTTCCAAATT TNAGAAA 157

SEQ ID NO:3295

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03868

SEQUENCE DESCRIPTION:

GATCCGNTAG GAGTAGTAAA TGNGAGACAC AATNGCTTGA TTATACCTCN TATNTGGTTT 60
 AGCTTCAGTA TTAAACAAG GAAATAAACT TGAAAATTAT TTGTCATCAT AAAAATGAAA 120
 CAAANTAAAA TATTTATTGC CAGGNAAA 148

SEQ ID NO:3296

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03869

SEQUENCE DESCRIPTION:

GATCTCAGAG GCTCAGAGAC TGCAAGCTGC TTGCCCAAGT CACACAGCTA GTGAAGNNCA 60
 GAGCAGTTTC ATCTGGTTGT NACTCTAAGC TCAGTGCTCT CTCCACTACC CCACACCAGC 120
 CTTGGTGCCA CCAAAAGTGC TCCCCAAAAG GAAGGAGAAT GGGATTTTNN TTTTGAGGCA 180
 TGCACATCTG GAATTAAGGT CAAACTAATT CTCACATCCC TCTAAAAGTA AACCTACTGG 240
 TTAGGAGCAG CAGTGTCTC ACAGTGTGGG GTCAGCCGTC CTNCTTNATN NNNGGCCAAT 300
 GGNTATTGAC ACGTGTNCNN NGTTTGGGCA GN 332

SEQ ID NO:3297

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03870

SEQUENCE DESCRIPTION:

GATCTNCTGT CCTCCTTTCA CTACATACCA ACAACCCTCT GGCATTAAAC TTCCAGTGAT 60
 AGTGCTATNA ACTTTGTGTC CTCAGGTCAA CAAGGGACCT CAGTAATTNG TTCTNTACAT 120
 AAGTATATAT ATGGGTATTA NTNNGTN 147

SEQ ID NO:3298

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03871

SEQUENCE DESCRIPTION:

GATCGCCCTC TACATGGCTT CGCAGCCCAA AAACAAATNA GTTAGGCTGC AGAGGACTGG 60
 TTTGTTTTTT GGCATAAACC CTTTGAAGTT CCTTTTTCAT TGTTAAATTA AAATTTTTTT 120
 NTTNACTTGG ATGGCTTAAC ATTTTNCNA GAAAANTNGG AAGNTATGAA GATGNTGTTT 180
 TGGTTTGTTC ATGAAANGCA TATGGCTTGN CAGAGCTCAT TCGACAGTTA AGGCCATTGT 240
 TTAAAGAANC GGTGCTTTGC TCTGTGTTG TNCTCCTGAT TTCCCTGGAG GTTCTGGATG 300
 AGGGCTGANC ACAGGCTTNG TTANTGTNCA GTCTGTGCTG GGGGNCCTCA GGGGN 355

SEQ ID NO:3299

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03872

SEQUENCE DESCRIPTION:

GATCACCAGG GTCAGTTTNT TTAATAATGG TTTCCAACGT GCCTAATACA TTAAGTAAGA 60
 NTGGNTGATA ACATGACCAG ACAGACATAA AGACCCTGTT GGGAAATNACA TTGAACCTCT 120
 AAAGTCAAGA TTTNTTACAC AANTNTN 147

SEQ ID NO:3300

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03873

SEQUENCE DESCRIPTION:

GATCCGCTAC TAAAGTAAA AATAACCGGT TTGTAAAACA TTAAGAGAAA AANTAGGATA 60
 TTTAATACAT GTGGTGAGTG GAGANCAGGG TAACTTTAAN TNAAAGTTTA AGGCAAATTG 120
 TAAGCNCCAC AAGANATATC ANATTTN 147

SEQ ID NO:3301

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03874

SEQUENCE DESCRIPTION:

GATCTAAAAA AATTAAAAAG AAATATGAAT GAAAGNAAAA AAAATGCNAA AATNAGCAGT 60
 TTCCTGGAGG AGCAGTTCCA GCAGGGCAAG CTTNTTGCTT GCNTCGTTTC AAGGCCGGGA 120
 CANTTTGGCC GAGCAGATGG CTATNTN 147

SEQ ID NO:3302

LENGTH:147

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03875

SEQUENCE DESCRIPTION:

GATCATNTTA TTTTACAATC ATTTATAATG AATNAATGTT NCAGTTAGCT TTAAAAGGTA 60
TACGGTGCTA ATNAGTAAAA TATTGAAGGC AATATTTTAC TGCTAGCTTG CAAAGTTATG 120
AGAGTTTAAA AAATAAAATA TATGAAA 147

SEQ ID NO:3303

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03876

SEQUENCE DESCRIPTION:

GATCTAGGGT CCTGGGTNTC TTGCATTTAT ATGTCAGAAA AGGGGCGATA TGCTGCTGAG 60
GGGTGAGTGC ATATAANTNT GGCCCTGAGG ACCAGGGCTG GCAGATNTTG TCTACCTGCT 120
GAAGAATAAA ANATTTCTTT TGGTAAA 147

SEQ ID NO:3304

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03877

SEQUENCE DESCRIPTION:

GATCTNACCC CCAGCATGAT TGTATTTCTT TCCCCTCCAG TCAAACCGTA ATACAGTTTC 60
CAGAAAATTC GACAGTCTGC AATGCCAAAA GGGTAAAAAT CTGTATTTC AAGTTGTATA 120
GAATAAAGGC TTTAGTTAAA ATATTTCAAA 150

SEQ ID NO:3305

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03878

SEQUENCE DESCRIPTION:

GATCTAAAAA TAACTGTAAT TATTTAAATG ACTAANAGGA AAGTACATTT TTAAAAATNC 60
TGAAAATTGC CTTNNTGTGT TTATNCAAAC TGAAAAGCTG AGACCAAGAG CAAGGAAGGT 120
AAAANGTTAA CAGGCAAACA TTTNCN 146

SEQ ID NO:3306

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03879

SEQUENCE DESCRIPTION:

GATCCTCACC AACCTAAGCA AGAGGAAGTG CCCCTCTCAA CCTGTGCGGG NTGCTGCGTC 60

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CCAGGACTGA GACGCAGGCC AGCCCCGGCC CCTAGCCCTC AGGCCTTCTT TTTATCCAA 120
ATAAATATTT CTTAATAAGG AAA 143

SEQ ID NO:3307

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03880

SEQUENCE DESCRIPTION:

GATCAACAAG AGCACTGTAC TCCTGGCAAT NATTACATAT GTNAGAACAT GGATTTTGCA 60
CTGTAGACAA CATTAAACAC CAGTCTATGG GGTACTGCAT TGCTTTTAT AAAGTTCAA 120
ATAAAGATT ATTTTCAAAC AAA 143

SEQ ID NO:3308

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03881

SEQUENCE DESCRIPTION:

GATCCCTTTA CTGGAGCCCA GTATGTGCTG TGTGAGTTAG AAGTCATTCT TGCTGAGAAG 60
GTGAATAGGT AGGGATTGTC CTTGTTTGT AAGTCTACAA TTTGCCAAGA GTAAATAACA 120
CTGGACCAGC TGTAAGTA AA 142

SEQ ID NO:3309

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03882

SEQUENCE DESCRIPTION:

GATCTGCACA TTAAATCGTG GCTGTTTCTG TATAGCCTAT ACTGCATTAG CCNAAGANAT 60
TGTTGCTTG TAACTTTTG CACTATTGTT TTGGCTGGAT TTGTATTACA CACAGTTTA 120
AAAAAACA TTCCACACTA AA 142

SEQ ID NO:3310

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03883

SEQUENCE DESCRIPTION:

GATCCCTAAG CCCCCAGCT GTAAATAGGC TGTGGCCAGT GCCTGGTCAT NAGAAGAGNG 60
AGGAGGAGCC CAGGCGTCTG TTTATGTATT TATTTATTA TTTATTATAC CTATTAATAA 120
AAAAGGTGCT CAGCCTCAA A 141

SEQ ID NO:3311

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03884

SEQUENCE DESCRIPTION:

GATCTTGGCC TTCGCAGTGC CCAGTGATGG CATTACTCTG CACTATAGCC ATTNCCCCA 60
 ACTTAAGTTT AGAAATNACA AGTTTCAGTA ATAGCTGAAC CTGTTCAAAA TGTTAATAAA 120
 GGTTCGTTG CATGGTAAA 139

SEQ ID NO:3312

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03885

SEQUENCE DESCRIPTION:

GATCTGGAAG ACAAGTAACA TCTTCCTTTT NTTGGTGCTC GCCTGCCGTG CTCTAGGTGC 60
 TTTTAGAGAT GCTGGTCTGT GTGCTAGGGA AGCGATGAAC CATACTGTGA GTCTATTAAA 120
 CATAACTCAA CCTGGAAA 138

SEQ ID NO:3313

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03886

SEQUENCE DESCRIPTION:

GATCTATCTC TGTGTCCAAG TCTCCTCTTT TTATAAGGAA ACCAGTCATA ATGGACCCAC 60
 CTGAATNACC TCATTTTAAC TTGATTACCT CTGTAAAAAA TGTATTTCCA AATAAAGTGA 120
 CCTTATGAGG TATTGAAA 138

SEQ ID NO:3314

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03887

SEQUENCE DESCRIPTION:

GATCAACAAA TCTCCTAGGC CTNTNACCAC ATACATTTAC ACCNACTACC NCAACTATCC 60
 ATAAATCTAA GTATAGCCAT TCCACTATNA GCTGGAGCCG TAATTACAGG CTTCCGACAC 120
 AAATAAAAA GCTAAA 136

SEQ ID NO:3315

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03888

SEQUENCE DESCRIPTION:

GATCCCACCT TCAACACCTT ACAAGTAAAG CCAATGAAGN ACAGTTGAAA CATGCAAAAT 60

ATGGNGCTTT TCATGTAATT ACTCTTTTAC TGTTTACCAT TCACTATAAT TCACAATTAA 120
AATTGTGTGN CTANACAAA 139

SEQ ID NO:3316

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03889

SEQUENCE DESCRIPTION:

GATCTGTGTA GTTAATGTAT TTATTAATGC TTGACTTTTA AAATCCTGGG CATAAATAGT 60
GCAGAGCCTC GTATGTTTGT CAGTTCATGC CGAGATGAAA TAAATCACGC AGAAAGTGCC 120
AGTCCTCCTG AAA 133

SEQ ID NO:3317

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03890

SEQUENCE DESCRIPTION:

GATCTGTGGA GTGTGTGTTT CAAAGAGAGA ACTACAGAAA TNTTAAAGCA GGAAAACCTG 60
AATGTNATGT GCACATTTTC ATCCACATG GACAATGTAT GTGTTTAAAT AAATGGAATT 120
TTCAGATTCA AA 132

SEQ ID NO:3318

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03891

SEQUENCE DESCRIPTION:

GATCAAAATGT GGGCCCGTTT TTGGCCGCCG CCGCCCTGCC CCGTCCCTNC GGCCACCACC 60
TAATTANTTG CCGTGCTTCC TGCTGCTGTA ACTGCTTTNT TACCTTTCCA ATAAAGANTT 120
TCTTGTTTAA AA 132

SEQ ID NO:3319

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03892

SEQUENCE DESCRIPTION:

GATCATTATT ATTGTAATAG TCTCATGTTT AAATGGGATT ATATAATGAN AACAGTTTAA 60
AGAAAATNAT AATCTTATAT NTCAAATGTG GATGCATATA ACCTGTNAGT GAAAAANCAC 120
TGANTGATTT AN 132

SEQ ID NO:3320

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03893

SEQUENCE DESCRIPTION:

GATCATATTG CTGTAAGTTC TTTAAGTAG TTGATGTGGA AAACATTTTA AAGTGAATTT 60
NTCAAAATNC TGGTTTTGTG TTTTATCCAA CTTTGTGCA TATATATAAA GTATGTCATG 120
GCATGGTTAA A 131

SEQ ID NO:3321

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03894

SEQUENCE DESCRIPTION:

GATCCTCAGT GTAGTTCTGA AACTAAGACT ATAGATATTT NNTTCTTTT AATTCTCTT 60
TATACTAAAG AATCCAGAGT TGCTACAATA AAATAAGGGG AATAATAAC TTGAGAGTGA 120
ATAACCATAA A 131

SEQ ID NO:3322

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03895

SEQUENCE DESCRIPTION:

GATCTTAGAG TTTGCACAGC TTAATAAAT GGAAATATTG GAATCTGAAT CCAAAACAGC 60
CTGACTCAA ACAATGTNCT TNCCATTATG CAAGGGAAAA AAAAAANGGT TGGGTNTCAG 120
NGNGAGGGTA N 131

SEQ ID NO:3323

LENGTH:433

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03896

SEQUENCE DESCRIPTION:

GATCATAGTC TTAGGAGTTC ATTTAAACCA TAGGAACTTT TCACTTATCT CATGTAGCT 60
GTACCAAGTCA GTGATTAAGT AGAACTACAA GTTGATATAGG CTTTATTGTT TATTGCTGGT 120
TTATGACCTT AATAAAGTGT AATTNTGTAT TACCAGCAGG GTGTTTTTAA CTGTGACTAT 180
TGTATAAAAC CAAATCTTGA TATCCAGAAG CACATGANGT TTGCAACTTT CCACCCTGCC 240
CATTTTTGTA AAAGTGCAGT CATCTGGAC CTTTTAAAC ACAATTTTA AACTCAACCA 300
AGCTGTGATA AGTGAATGG TTAAGTTTAA TACTGTGGGT ATGTTTTTGN NTTACAGCAG 360
GTTAATGCTT TCTTTTTCCA GGTGNCCTT TGAGGATTNA GGGAAAATA NATAACTCTT 420
TGTACAGTTC AAA 433

SEQ ID NO:3324

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03897

SEQUENCE DESCRIPTION:

GATCCACCCA CTCGGCCTC CCAAAGTGCT GGGATTATAG GTGNNAGCCA CCGCGCCGGG 60
CCGGTTGCTG GCATCTTAAT GTTCTGTAGG TGGAATATTT CCAATAAACA CAAGGTGCCG 120
TAATTGAAA 129

SEQ ID NO:3325

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03898

SEQUENCE DESCRIPTION:

GATCTGGTAA ACTTNNAATC AATTAAATTA ATGCANCAAT AGATTATNAA TATTAAGTGA 60
CCATTAAAGT TTTTNAATAA GTTTTTTACA AAGAAAAGTT AAACATTAAA AAGAATTACA 120
GCTTTCAAA 129

SEQ ID NO:3326

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03899

SEQUENCE DESCRIPTION:

GATCTGGAAA TTTTTAATC AGTTAAATTG TGCAGCAATA GATTTTAAAC TTAACTGAC 60
CATTAAAGTT TTTNAATAAG TTTTTTACAA AGAAAAGTTA AACATTAAAA AGAATTACAG 120
CTTTCAAA 128

SEQ ID NO:3327

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03900

SEQUENCE DESCRIPTION:

GATCCTGTAG TGCCTCTATA GAAGTACCCA CAGAAAGTAA AGTATCACAT TTATAAATAC 60
CAAAGATGTA ACAATTTTAA AATTTTNTAG ATTACTCCAA TAAAGTGTTT TAAGTTTTC 120
TATGAAA 127

SEQ ID NO:3328

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03901

SEQUENCE DESCRIPTION:

GATCCATCGC GATACTATGT GTGCATTATT TGAAAGTTAT TGGAAATTTT ATTCAAACCG 60

TGGAACAAAT GTATGTNATT TTTTATACT TCTTAATTTA AATAAAATAT TTAATGCACT 120
 ATTAATAATAA A 131

SEQ ID NO:3329

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03902

SEQUENCE DESCRIPTION:

GATCAGCCCT TTGTACAGAA AAATGTGTCT ATAAAAATTA TGTGTTATTT AATTCTGATA 60
 CTTTGTGGCT TGTAATAGC TTCTTGAAC TTTTACAATA AAAATGTTTT AGAACTGTT 120
 AAA 123

SEQ ID NO:3330

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03903

SEQUENCE DESCRIPTION:

GATCATGACC GGAACATGGN CTGGGTTTCC ACCCAGCTCC AGGCCACATG CAATGTCCAC 60
 AAGTNTGCCT TCAATNACTG GTTCAGTGGA CACCTCAACT TCCAGATTGA GCACCATCTN 120
 NNN 123

SEQ ID NO:3331

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03904

SEQUENCE DESCRIPTION:

GATCGATTCA ATGCCCGATG CTTCTGTTTC ATTCCCGACC CTTTCTACTA TGCATTTCCT 60
 TTTTATCAGG TGTATAAAGT TAAATACTGT GTATTATCA CTAAAAAGTA CATGAACTTA 120
 AGNGNAACT AAGCCTTTTCG TGTTTTTCCA NAGGNCNGCN NGGCTTCTNT GTACAGTTGG 180
 AATAACAGA CAGCAAAATG GTAAA 205

SEQ ID NO:3332

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03905

SEQUENCE DESCRIPTION:

GATCCTCAGG CGGCCCCAC CAGGGCACAC CCTACTGTCC TTGTGCCTCA CGCCCCCTCC 60
 TCATCCTGCA CCCCTTCCAT CCCACCTTCC CTTCAATAA ACAGCTGGGA TGGATACTGA 120
 AA 122

SEQ ID NO:3333

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03906

SEQUENCE DESCRIPTION:

GATCTGATTT TTTCCCCCTT TACCTAGCTG TGCCCCCTCT GGTTATNTAT TTCCTTAGTG 60
CCAGGAGGGC ACAGCAGGGG AGCCCTGATT TTAAATAAAT CCGGAATTGT ATTTATTAAA 120

SEQ ID NO:3334

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03907

SEQUENCE DESCRIPTION:

GATCACCAGT GCATCCTCA TCACAGCATG TGCAATATGC CAAGATTACC CTCGGTCATT 60
CCTGTCAACA AGGGGTCAAT GTCATAAATG TCACAATAAA ACAATCTCTT CTTTTTAAA 119

SEQ ID NO:3335

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03908

SEQUENCE DESCRIPTION:

GATCCATGAG GAAAAGATGC TCTCCCACCT AAGGCCAGGA ATCTGAGAGC AGGACTGGCT 60
GAGCTCCCAG GGCAAGGGGT TCACTAATGC TTATCAATAA AGAATATTGA GCCTGGAAA 119

SEQ ID NO:3336

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03909

SEQUENCE DESCRIPTION:

GATCAGATTG CATGTNACTC TNAAGCTGAC GAACCTCCAT GGCCCTCATT AATGACACTT 60
GTCCCCAAAT CCGAACCTCC TCTGTNAAGC ATTCGAGACA GAACCTTGTT ATTTCTCAGA 120
CTTTGGAAAA TGCATTGTAT CGATGTTATG TAAAAGGCCA AACCTCTGTT CAGTGNNNNT 180
AGTTACTCCA GTGCCAACAA TCCTAGTGCT TTCCTTTTNN AAAAATGCAA ATCCTATGTG 240
NTTTAACTC TGTCTNCACC TGATTCAACT AAA 273

SEQ ID NO:3337

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03910

SEQUENCE DESCRIPTION:

GATCACCATG AACAAAGNTA TATTTCTAT TTATTTATTA TATGTGCACT TCAAGAAGTC 60

ACTGTCAGAG AAATAAGNN TTGTCTAAAT GTCATGTTGG AGATNCCTTT GCATNCTTN 119

SEQ ID NO:3338

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03911

SEQUENCE DESCRIPTION:

GATCAGGACT TCAAGGGCCA GACCACAGAC TACTTATAGG AGCATCTTCA AGGCGGTCAC 60
AGTGAAAACC TTGAAATGGC CTTTTTNAAT ATATATAANT AANTGTNAAT ATTATTNN 118

SEQ ID NO:3339

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03912

SEQUENCE DESCRIPTION:

GATCCAAATN ATGGCCACAG ATGAACTTCC ATGCAAGCNA TGGCTGAGTT TCATTGCTTA 60
AAATNCTCCT CTGTTTAGAG GGGCCTGGTA GAAATAAAAA CCCACCCTAT ATCTTAAA 118

SEQ ID NO:3340

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03913

SEQUENCE DESCRIPTION:

GATCCTCCTG GCCGCCCGC AGGTCTNTGG AAGGGCTGGA CGGCAAGTCC GTNTAGCTCA 60
CGGGCCCCCTC CAGTGGAATG GNTCTTCCG GTGGAGATAA AAGTTGATTT NCTCTAAA 118

SEQ ID NO:3341

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03914

SEQUENCE DESCRIPTION:

GATCCCAGGT GCGTGTNTCT CTGTCTCTCC TAGCCCCTCT CTCACACATC ACATTCCCAT 60
GGTGGCCTCA AGAAAGGCC GGAAGCGCCA GGCTGGAGAT ANCAGNCTCT TNCCCGTCGG 120
CCCTGCGTCG GCCCTGGGGT ACCATGTGGC CACAACTGCT GTGGCCCCCT GTCCNNAAGA 180
CACTTCCCCT TGTNTCCCTG GTTGCCCTCT TTGCCCCTG TCCTGAAGCC CAGCGACACA 240
GAAGGGNGNG GGGCGGGTCT ATGGGGGAGA ANGGGAGCGA GNTCAAGAGG TGGGCATGGG 300
TTTGNAAGG GTNGCGTTT GGGGGGCCTN TNATGNTGGC TTTTCAANC N 351

SEQ ID NO:3342

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03915

SEQUENCE DESCRIPTION:

GATCATGCCG CTGCACTCCA ACCTGGGCAG CAGTGCAAGA CTCTGTCTCA AAAGGGGAAA 60
AAAAAAANT TNCTGATGTG NCCCATGAAG GGACCTCATT TNCCTCGNAA TTTTGGN 117

SEQ ID NO:3343

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03916

SEQUENCE DESCRIPTION:

GATCGGCCGT ACCAGCCGCC CCGCCGCCG GTGGGCGCTC TCGGACTACT CGCTGTACTT 60
GCCGCTCTGA GTCAGTGCC CCTTCGTCC TTGTAAATAA ATCCCGCCCC CGGAAA 116

SEQ ID NO:3344

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03917

SEQUENCE DESCRIPTION:

GATCCAGACA AGTGGGAGAG CCCGTGGGGG CAGGGGACCT GGAGCTGCCA GCACCAAGCG 60
TGATTCCTGC TGCCTGTATT CTCTATTCCA ATAAAGCAGA GTTTGACACC GTCAAA 116

SEQ ID NO:3345

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03918

SEQUENCE DESCRIPTION:

GATCTCATAA GAAATGTAAT ATGTAAATAA TATCTTGCTT TATGTTGTAA AATATACATT 60
GTTTGCNCTA GAATAGAAAT AATTTCTTTT CAATAAAAAG AAAGAAGGAC TCTAAA 116

SEQ ID NO:3346

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03919

SEQUENCE DESCRIPTION:

GATCGTTGTG TTGTTATTTT ACTGCACTTT TTACTTTTTT NCGTGTGGAG CTGTATTCCC 60
GAGACCAACG AAGCGTTGGG ATACTTCATT AAATGTAGCG ACTGTCAACA GCGAAA 116

SEQ ID NO:3347

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03920

SEQUENCE DESCRIPTION:

GATCAAGGCC AAATAACCGG ATTTGGTTTG GGCACCTCAAG CAATAGTAAA GCCTGTAAGA 60
CATGATAGGA TTATNTTCCC CTTTGGATTT AAATNTAATA TAGCAGTTGG ATTAAA 116

SEQ ID NO:3348

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03921

SEQUENCE DESCRIPTION:

GATCCTGTAG ACCCTTCTT TTGGCCAATT TCCCCCTTTT TGGGATGGAA ACATTACCC 60
AATCCCTATA CCCCCATTGT ATCTTGAAG TAAATAATTT GTTTTGTATT TTAAA 115

SEQ ID NO:3349

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03922

SEQUENCE DESCRIPTION:

GATCTCTCA CTGTNAAAAG TTGCCCGGGT GCAGCGCCTT TCCCTTCTAN CATGGGAAAT 60
GCAGGCTGGG CCCTTGGGNT NAGCCTGCGG GGCTCTGGTG CTGTCCCCGA CCCNN 115

SEQ ID NO:3350

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03923

SEQUENCE DESCRIPTION:

GATCCACTGT TTGCAGCAGA ATTATATATA TGTATAGGAA AAATCCACTT TGAATAATCC 60
ATGTTTTGTA TTTGGAAATT GTTTTAAAA ATAAAAAGGA AAGGAAATAT AAA 113

SEQ ID NO:3351

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03924

SEQUENCE DESCRIPTION:

GATCTAGGCA GTGGGTAAAG CCAGACCCCT AAAAGTGACC CTTTCCTCTT CTGCCCTATT 60
CTNCTNAGAC CCTCAGAAAG NNNTCCAATT TTTTAAATC CCTGTAGCTC CAN 113

SEQ ID NO:3352

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03925

SEQUENCE DESCRIPTION:

GATCTGATGA ATTGGTTTTT GAATCCCAGA AANGGTCTGC CATGGAGTTG GCAGTCATCA 60
CGGTAGATGG CGTATGATTT TCCTGAATTT TAAATAAAAT GAAAACCATA AATTAAA 117

SEQ ID NO:3353

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03926

SEQUENCE DESCRIPTION:

GATCAGAGCT GTTAGGTAAG GGCCTAACCA CCTCCCTGCA GNCTCTTAAN TCTCAAGCTT 60
TAGGAACCCA TTTCTAAANG TACACTAGCG GAGANTTTAT ATTGTCAGCC NN 112

SEQ ID NO:3354

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03927

SEQUENCE DESCRIPTION:

GATCACGGTA CGTCCATAAA GCCAGTATTA CACTTAAATN NAGTATTCTT TTTTGTAACT 60
GTTTTTTTGA GAAGGTAAAC AAATTTAATA AAGCTACCAA TAATGTTGAA A 111

SEQ ID NO:3355

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03928

SEQUENCE DESCRIPTION:

GATCTAGAAA NTGCCCTCCT TATACCCCTA CCATGAGCCC TACAAACAAA AAACCTGCCA 60
CTAATAGTAT GGTATCCCT CTNANTAAAN CATCATCCTG GCCCTAAGGN N 111

SEQ ID NO:3356

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03929

SEQUENCE DESCRIPTION:

GATCTTTGCA ATTNAAAGNT TAGCCACGTG GCTTGCTTCA GCNAGTAATG TGAATGGAAA 60
TAACGTGTAT CANTGCTGGA TAGAAAACCT AANAGCCAAC ACATGGTTCC N 111

SEQ ID NO:3357

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03930

SEQUENCE DESCRIPTION:

GATCCCGTAG AATATATATT TAATAATCCC ACAAACGGAG GCCAGACTTC TGCGTTAACT 60
TCAGTAACAC AAGCTTCTTT AAGCCAAATA CATCACTTGC CACTACCAAA 110

SEQ ID NO:3358

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03931

SEQUENCE DESCRIPTION:

GATCTCCGTG GTGGTCGTGG GCCGCCAGGT GAATNANCCC CACATCCGCN TCCTGGTCAC 60
CGGCAAGACG GCCGAGTACG ACGTGGCCTA CGGCGAGAGC ACCTNTNCCN 110

SEQ ID NO:3359

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03932

SEQUENCE DESCRIPTION:

GATCCTTCGA AGCACTCAGT TCACTCTTCC CCACCACAGT GGTAAAAGG CGTTGTATC 60
TGCCACTATG TGTGTGTTTT AAAATAANCT TTTGGAACA TGTTGGNGN GNAAA 115

SEQ ID NO:3360

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03933

SEQUENCE DESCRIPTION:

GATCCACTAA TGTAGCTTAA GGTATTAGN TTTGGGCTTT TAATCATGGN ATAATCTTAT 60
GTATTGGTGT AAGAGTTGAT GAATGACTTT AGCTGTGTGA ATATATAATA GTCAAAGTGC 120
AAACATTTTG CATCCCTTTT GTGACCTAAT TTACAGNCAT TTAAATTGTG TTGCAGTTCT 180
GCTTTGCCGT TTAATAAAAA GCTATTTTCA NAAA 214

SEQ ID NO:3361

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03934

SEQUENCE DESCRIPTION:

GATCANAGAT TTCAATNACA GTGCAGGAAA GCAGCACTGA GAAACTTTTA ATTGTNTTNA 60
ATTTCTNCTT TAATGTTTAC ACCACCACAT TCCCATTCAC TTTAATTTTN 110

SEQ ID NO:3362

2153480

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03935

SEQUENCE DESCRIPTION:

GATCTTCCCC TGACCTGCTC CCAGGGCTAT AACAGATACG GACTTTGAAA CTGTATGGAG 60
TATAGAGCAG TGCTCTATAA TTAAAAATAT ACATATATTG CAACCAAA 108

SEQ ID NO:3363

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03936

SEQUENCE DESCRIPTION:

GATCTTCAGC TTGGTAGATT TAATTGCCCA GTGAATGGCA CTTACGTTTT CATTTTNNAC 60
ATGCTAAAGC TGGCAGTGAA TGTNCCACTG TATGTCAACC TCATGAAGAA TGAAGAGGTC 120
TTGGTATCAG CCTATGCCAA TNATGGTGCT CCAGACCATG AAAGTGTAG CAATCATGCA 180
ATTCTTCAGC TCTTCCAGGG AGGCCAGATA TGGTTACGNC TGCACAGGGG AGCAATTTNT 240
GGAAGTAGCT GGGAAATATT CTACGGTTTC AGGCTATCTN CTTTTATCAA GGTTTGAATG 300
TCAGTNCAGT NTTTGACNAC TAAAAGGNNT NGGGGTNCTA ATTANGTNGG GTTTGAAGGG 360
TAN 363

SEQ ID NO:3364

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03937

SEQUENCE DESCRIPTION:

GATCTGGGGA GTNTNAGGAG AGGGTGGCAT CAGNAGCTGC TCAGGCTTGG CGGAGGGAGC 60
GGCATGGCCG ATGTCACTCA GCCCCTTCCC GGTCCGCCCN NTTCCN 106

SEQ ID NO:3365

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03938

SEQUENCE DESCRIPTION:

GATCGTTTTT TCCAGAGTCG CGGGGACACA GGAGTNTTCC TACAGTACAT NCACGCCCGC 60
NTCCACAGTT TGGAAGAGAC TTTTGGATGT GGTACNTGA NTGAN 105

SEQ ID NO:3366

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03939

01128

SEQUENCE DESCRIPTION:

GATCATCTAA AAAATGCCAT GANTGGAAAT NCGAAGGCC AGACACCAAT ATTCNTAGA 60
AGTAAACAGC TCAAAGACAC TCTCCTATCT NAGGAAATNA ATGTN 105

SEQ ID NO:3367

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03940

SEQUENCE DESCRIPTION:

GATCCAGTGG GGTCCGGACA CTGGGCCCCG CAGCGAAAGC ACGNTCCAGC CACCAGGAGG 60
CCACCTATTN TTCAAATA AAGACTGCGT TCCTCTCTTG GAAA 104

SEQ ID NO:3368

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03941

SEQUENCE DESCRIPTION:

GATCAAAAAA GAAGAGTTAA AACAACACAT GTAAATNCCT TTTAATATTT NATGGGAATG 60
CCTCTCATTT AAAAATAGAA ATAAAGCATT TTGTTAAAAA GAAA 104

SEQ ID NO:3369

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03942

SEQUENCE DESCRIPTION:

GATCCTTTAT CTTTCCATAT GGCACACGTA AGAAAGTGTT TTTCTACTAT TAATATTAAA 60
TTAAACCTT TACTTNTGTA TAATAAATNA AAATCAGAA TAAA 104

SEQ ID NO:3370

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03943

SEQUENCE DESCRIPTION:

GATCTGGAAG AGGCTTGTA CCTGAACTAN TATGTAGGAA GGCAGTACNA NCAGCCCACC 60
AGTGTAATCT CCCTGNATTA AGGCATTCTT AAAAATTAG GCNN 104

SEQ ID NO:3371

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03944

SEQUENCE DESCRIPTION:

GATCCGCTCT GGTCAAACCC TTCCAGGCCA GCCAGAGTGG GGATGGTCNN TNACCTGCTG 60
GGAAGGCANN CTGATGGGGC ACACCCTTGG CCTCTCGTCC ACGN 104

SEQ ID NO:3372

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03945

SEQUENCE DESCRIPTION:

GATCAAAATT TTTTGATAAT TTAATAATTG TGTGTGATTT TNAATTTNA AGAAATTGCT 60
GAAACTTAG AAAATATAA TGGTATACAT ACAATAGNNA AA 102

SEQ ID NO:3373

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03946

SEQUENCE DESCRIPTION:

GATCAATAAT TTAAATGTAA CTAGTTGGGA TTTTATAGTT AAAATNATAT TTGTGTATAT 60
AACATAACTA ATCTGTAAAT NGTAATAAAT ATATTNCAA TTAAA 105

SEQ ID NO:3374

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03947

SEQUENCE DESCRIPTION:

GATCATTTAG TACTTTTGTN TTCTCCCATG TGCTTGAAGG AAAAATAAAG TGTCACTACC 60
GTATTNTTG TTTTCATCAA AAAATAAAAA TAATTAA 99

SEQ ID NO:3375

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03948

SEQUENCE DESCRIPTION:

GATCTTTAGC ACAGTGATAT NACCATGACT TCACAGACAT GGTCTAGAAT CTGTACCCTT 60
ACCCACATAT GAAGAATAAA ATTGATTAA GGTAA 97

SEQ ID NO:3376

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03949

SEQUENCE DESCRIPTION:

GATCAATAAT AATNAGGAAA GCATGATATG TATATTGCTG AGTTGAAAGC ACTTATTGGA 60
AAANATTAAA AGGCTAACAT TAAAAGACTA AAGGAAA 97

SEQ ID NO:3377

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03951

SEQUENCE DESCRIPTION:

GATCCCCCTC CTCGCCCTC TCCCCATTGT ATTTATTTGC CTGCTGGAAA ATNACATCCG 60
GAAATAAAAT AGAAATATGT CTTTNNATTT TAAA 94

SEQ ID NO:3378

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03952

SEQUENCE DESCRIPTION:

GATCCTAAAC TTTTGGATA ATCTTTTATA TTTNTAACCT TTGAATTTAA TCATTGTNCT 60
NAGATTAAAA TAAANATGC TATTGAACT AAA 93

SEQ ID NO:3379

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03954

SEQUENCE DESCRIPTION:

GATCTGGAAA TCCCTGCTGT AATCTTTTAA AGGGAATCCA CTGGAAATAA TTAGTTTTTG 60
TTTAAATAA AACCATTCCT TACTTAACAA A 91

SEQ ID NO:3380

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03955

SEQUENCE DESCRIPTION:

GATCTATGGC CTCTGGTGCT TTGTCCTGTA TTTGGTTTAA TTTTTTGTG CTAATCTCTT 60
CAATCAATAA AATTGTGCGT ATTAACTAA A 91

SEQ ID NO:3381

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03956

2153480

SEQUENCE DESCRIPTION:

GATCAACTNA ATGTTTAAGA CTTTAGATGT CTTGTATTAA AAATTACACA AAAAAAGTAA 60
AACTTTTAT ACTTACCCTT TTAACCTCTAA A 91

SEQ ID NO:3382

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03958

SEQUENCE DESCRIPTION:

GATCTCTGTA ATNTTATNTA GAGTTTGAGC TGAAGCCCCG TATATCTAAT NTATTTTGTT 60
AAACATGAAA GTGCATCCTT TCCCTCCAAN 90

SEQ ID NO:3383

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03959

SEQUENCE DESCRIPTION:

GATCATACCT ATTAAATATA TGCCAAACAC CAAATATGAA TTTNATGATG TACACTTTGT 60
GCTTGGCATT AAAAGAAAAA AACACAAA 88

SEQ ID NO:3384

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03960

SEQUENCE DESCRIPTION:

GATCAAGAAG ACGNNTAAGG GAAGAACGTA CACAGTGAAA ANCCAAAAAA AGAAAAAAAT 60
GTTTATACAA CCCTAAGTCA ATAACCTN 88

SEQ ID NO:3385

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03961

SEQUENCE DESCRIPTION:

GATCTAGGCA CACCTNGCTC TTNGCTGCAT GTGGTTATNA ACANCTTCCA GTGGAAGTCG 60
AATAAACAGT TTTTGGTAAA TCTCAAA 87

SEQ ID NO:3386

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03962

01132

SEQUENCE DESCRIPTION:

GATCCTGCCC TGAATCTCCA TAGTCTCCAC TGTGAACTGA GGAGGGGAGG GGTGTGCTGG 60
GGAATAAATC TTGTATGAGA ACAA 85

SEQ ID NO:3387

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03963

SEQUENCE DESCRIPTION:

GATCCATTTA NAGGCCAAAT NTCATTCTGC AGGTGCCTTC CCGATGGATT AAAGGTGCTT 60
ATNTTTTTTT AAGTTTNAAG TAAA 84

SEQ ID NO:3388

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03964

SEQUENCE DESCRIPTION:

GATCGTGTTT ATTTTGNITT CCGATTCTAG ATATAAGTTT TGNATGGGCA GGAAGACTAA 60
AATAAAAGTT TTAAAGGTAA A 81

SEQ ID NO:3389

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03965

SEQUENCE DESCRIPTION:

GATCTCCAGA TGTAATTTCC CCTCTTTAAT TTAAANTAAT NTAAAGATTA CTAAACAAT 60
AAAANCTCCT AAAAANTCAA A 81

SEQ ID NO:3390

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03966

SEQUENCE DESCRIPTION:

GATCTTTCTT TCCAAAACAT TTCTGGACAG TACCTGATTG TATTTTTTTT TTAAAATAA 60
AAGCACAAGT ACTTTNGNGN TTGTAAA 88

SEQ ID NO:3391

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03967

2153480

SEQUENCE DESCRIPTION:

GATCCCCCA CAGCCCTGG TCAGTCTGCC CTTGTCAGTG GTCTGAGGTC ATTAAAATTA 60
CATTGAGGTT CCTAAA 76

SEQ ID NO:3392

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03968

SEQUENCE DESCRIPTION:

GATCACAATC ATTTGAATC CCTCTTCCTC ACTTTTTTTT CTAAGAAAAT AACATTTTA 60
CTGTTTTTAT GGAATAAA 78

SEQ ID NO:3393

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03969

SEQUENCE DESCRIPTION:

GATCACAGCT GACATTTACA AAATATTTTT NTACCTTAGA ATTCTGCAT TAAATAAAAT 60
ATTTTGTTTT AAA 73

SEQ ID NO:3394

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03971

SEQUENCE DESCRIPTION:

GATCTTTTGC TAATGCAATT AGNATTATGT TTTGCATGTA TGACTTAATA AATCCTTGAA 60
TCATAAAA 68

SEQ ID NO:3395

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03972

SEQUENCE DESCRIPTION:

GATCCTCTAA ATNTGGAATT TTGATGTAAT AACTGCTAAT AAAATNATAT TGAAACTGTT 60
TTATAAA 67

SEQ ID NO:3396

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03973

01134

SEQUENCE DESCRIPTION:

GATCAAAGCC CGGAAAGGCA AATGAAGCNT CATGTGTAGT GTAATAAAGN TGTCTGCTGT 60
TCAAA 65

SEQ ID NO:3397

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03974

SEQUENCE DESCRIPTION:

GATCGAAGCC TGTGTAAAT GCTACCAAAT GGCAAAAAGC AACAATAAAC AGTTTGATT 60
TTAAA 65

SEQ ID NO:3398

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03975

SEQUENCE DESCRIPTION:

GATCCCAAT ATATCTACCA TTGTATGTTA AATAAATNAC CATTTTGTG GAAAAAATTC 60
TAAA 64

SEQ ID NO:3399

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03976

SEQUENCE DESCRIPTION:

GATCTGTAAA TNACTTTAAA AGCTATTTTA GTAATTTAAA TAAATTTACT TTCTTGTTT 60
ATACTCTCAA A 71

SEQ ID NO:3400

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03977

SEQUENCE DESCRIPTION:

GATCTCTATA NTTTTTTTA AATTTCTCC AGCCTGGGTG ACAGAGCGAN ACTCCGTCTC 60
AAA 63

SEQ ID NO:3401

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03978

SEQUENCE DESCRIPTION:

GATCTCCTGC TGCCTTTCCT GGAGTTTGTA AAATTNTNCC TGAATACAAG CCTATGCGTG 60
AAA 63

SEQ ID NO:3402

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03979

SEQUENCE DESCRIPTION:

GATCCAAGCA TAGTAGAAAA GCTTCATGTG TTTAAAAAA TAAACAATAA CAAAAAATTA 60
AA 62

SEQ ID NO:3403

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03980

SEQUENCE DESCRIPTION:

GATCATGTGT TCTGGAGAGT GTTCTTTATT CAATAAAGTT TTAATTTAGT ATAAACATAA 60
A 61

SEQ ID NO:3404

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03981

SEQUENCE DESCRIPTION:

GATCTAATTT TTCAAACCTT CACTATTTTG AAAATATAAC CAAGGCCGGT TGCGGTGGAA 60
A 61

SEQ ID NO:3405

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03982

SEQUENCE DESCRIPTION:

GATCATGAAA CTGATTGTAA AGCTTTTGA CAACTAATAA ATGTCTTGGT AATTGCTAAA 60

SEQ ID NO:3406

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03984

SEQUENCE DESCRIPTION:

GATCAATGGA TTTGTTTACA ATGTGATATT TTCTATTAAA TCCAGTATTT TCAAATAAA 59

SEQ ID NO:3407

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03985

SEQUENCE DESCRIPTION:

GATCTTGAC TAACCTATGA TAGAATGTAT CAGAATAAAT ATTTTAAACA GTGTAAA 58

SEQ ID NO:3408

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03986

SEQUENCE DESCRIPTION:

GATCATNAAA GTATACAAAA TAAATAAAGT AGGAGATTTT TTTGCTGTTT AAA 53

SEQ ID NO:3409

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03987

SEQUENCE DESCRIPTION:

GATCTGTTTA GTGAGATTTA GCATGTGTGA ATAAAGTATA TGCAGGAGGA AATTGCTTTG 60
TNTCCCAAT CGGTAGAAAT TCGGGACCAT AAAAATTGTG TTTTACCATG TGGCCTACAA 120
A 121

SEQ ID NO:3410

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03988

SEQUENCE DESCRIPTION:

GATCATTGTT AAAGGATTGC TGCAAATAAA TACACTTTAA TNTCAGTCAA A 51

SEQ ID NO:3411

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03989

SEQUENCE DESCRIPTION:

GATCTTTAAA ACATTTTAA TGAACAAAGT TGAATAAAGG CACAATTAAA AACTGTCAAA 60

SEQ ID NO:3412

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03993

SEQUENCE DESCRIPTION:

GATCAACAG AAGCAGCCGT GGGCAAAATA CAATTCATT TAACAAATTG AAA 53

SEQ ID NO:3413

LENGTH:521

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04020

SEQUENCE DESCRIPTION:

GATCTCATAG GACGGAGGGG GAAATGGTTT CCCTCCAAGC TTGGGTTAGT GTGTTANCTG 60
CTTATCAGCT ATTCAGACAT CTCCATGGTT TCTCCATGAA ACTCTGTGGT TTCATCATTC 120
CTTCTTAGTT GACCTGCACA GCTTGGTTAG ACCTAGATTT AACCTAAGG TAAGATGCTG 180
GGGTATAGAA CGCTAAGAAT TTTCCCCCAA GGA CTCTGC TTCCTTAAGC CCTTCTGGCT 240
TCGTTTATGG TCTTCATTAA AAGTATAAGC CTAAC TTTGT CGCTAGTCCT AAGGAGAAAC 300
CTTTAACCAC AAAGTTTTTA TCATTGAAGA CAATATTGAA CAACCCCTA TTTNGTGGGG 360
ATTGAGAAGG GGTGAATAGA GGCTTGAGAC TTTCTTTGT GTGGTAGGNC TTGGAGGAGA 420
AATCCCCTGG NCTTCTACTA ACCCNTNTGG ACATACTNCC CACAACCCAG TTNGATGGGN 480
TTTCCCGTAA TAAAAAGGGN TNGGGNNTTN CCTTTTGA A 521

SEQ ID NO:3414

LENGTH:501

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04021

SEQUENCE DESCRIPTION:

GATCAGAAAT NACTGTGTCA TGGTGCTCAT TCACTGCAAA CTCCAGTTG NAAGCTCCTT 60
GGCTCCCCCG GAGGAGCAAG AATCTCATAG TTCAGAGACA CAGAGGGCCT TTTAGCCCTA 120
ATNACCTTTT GGATGGGACT GCAACTCATG ACTATCCTGA TATTGGAAGA AAGGACTTTG 180
TTAATCTTCT CCCCCATAGC TCTGCTGCGT AGGTCTACAT CTTACTCAGA ATCACTACAC 240
ATTCTTTTAG TCTTCCTCCA AGCTCCAGAG CCATTGGTAC AAATGCTTTA TTGAAACTAA 300
ATACATANTN NACACAATGA GATGAAGACA ATATAGANGT NCGCATAGTC ATCATAATCC 360
CGTTCCTTGG CCGGTTGAGG CAGCTCAGTG GCTGAGCCCA GTCAAGCCAA CCCGGNAGTT 420
TCACTCACGG CNTTCAAGGN TTTTGATGCT AATTCTTTTG GGTTCCTAC AGTTTATTAA 480
ATAAGTNGTC TGNGTGGGAA A 501

SEQ ID NO:3415

LENGTH:485

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04022

SEQUENCE DESCRIPTION:

GATCTCAGTG AACTAATACA CAGCTTGAGC GTTCCATGT GCTAATGTTG CACATTTACT 60
 AAAAACTTT GGAAATGGAA AATAATGTAT TAGTGCAACA GTTGATGTGC TTCTTTGGGC 120
 AAAGATATAG TTTTGTTCCT CAATTGTGAC TTAAGCGA AAGAACATTG AAAACATAGA 180
 CTTACTGGCT GTAGCAATGC TGGCCTGTTA ACTGATAACT AGAACTTAGG TTCACGTTTA 240
 TGTAAGTGT GTAAACCTA GTAGAGCTTG CATAGTCGGG CACTCAGTAA ATGGTTTGGT 300
 TCCTTTTGCC CCTTGGTAAG TTTATTTTAC CCATCCNCCC ACCTGCCCCAT TCTGACTTTN 360
 TATTAATAATC ANCCATGTGG GACCCAGNGG TGTTTAATGN GGATGTTATT NCCAGAAGGA 420
 GGATTTGAGA AAAATTGGG GATTNTCATT GCAGGTTAAC NATTCAAAA ATNCTTTTGT 480
 GTAAN 485

SEQ ID NO:3416

LENGTH:471

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04023

SEQUENCE DESCRIPTION:

GATCTGTTTT TTCATCGAGG TNTCGAGGTA TNCTTTNAAA GATAGTGANA NGCAGACACT 60
 GCTCCTGTG CAGCTCTGGT ACCTCCTGCC CACTGCTGTC ACTTCAAGCC ACTGGCAATG 120
 CTTCTGCTCT CGTGTCTTGG AGGAAAAATCA CCTGGGGGGA GGGGACTTCT TGTGGTAAGA 180
 GCAAGTGCAG GTATGAAATG CGAAGATTGC CCCAGCTAAA AGTGGACAAG TCCGCTTTGT 240
 GAGATGAATA CTTCTGAGA NNCNNNNCAA GTATCTCTCC ATTTTACCAT TATGAAAACT 300
 ATCATTAATA AAAACAGTTT AGATGCCTTC TCCTTTTGAG GGAAAAAGGG TGCTTTTAT 360
 TGTATAAAGC AGCGTCTTAT GTATTTTGAT ATACCATTGT TTGAACTTCC GTCTTTAGCT 420
 GATAGATTCT CAAATATCCT NGATTTTGGG ATGTTTCAGTA TGTGTGTGAG N 471

SEQ ID NO:3417

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04024

SEQUENCE DESCRIPTION:

GATCAATAT ATTTCAAGCT ATAAAAGCAG GAGGTTATCT GTGCAGGGGA CTGGCATCAT 60
 GTATTTAGGG GCAAGTAATA ATGGAATGCT ACTAAGATAC TCCATATTCT TACCCGAATC 120
 ACACAGACAG TTTCTGACAG GCGCAACTCC TCCATTTTCC TCCCGCAGGT GAGANCCCTG 180
 TGGAGATGAG TCAAGTCCAT GACTGAGANG GANCCGACCC CTAGTTGAGA GCACCTTGCA 240
 GTTCCCCGAG AACTTTCTGA TTCACAGTCT CATTTTGACA GCATGAANTG TCCTCTTGAA 300
 GCATAGCTTN NNNAATATCT TTTTCCTTCT ACTCCTCCNT CTGACTCTAA GAATTCTCTC 360
 TTTCTGGANT CGCTTGAACC CAGGANGGCG GGAGGTTNCA GTAAGCCAAG GTCANTGCNA 420
 CTGCACTNTT AGCCTTNGGT NANAANTNGA GGTTTCATT TNTAAA 466

SEQ ID NO:3418

LENGTH:464

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04025

SEQUENCE DESCRIPTION:

GATCGCCAGG CTGATTGAGA AGAACAAGAT GAGTGACGGG AAGAAGGAGG AGCTCCAGAA 60
 GAGCTTAAAC ATCCTGACTG CCTTCCAGAA GAAGGGGGCC GAGAAAGAGG AGCTGTAAAA 120
 AGGCTGTCTG TGATTTTCCA GGGTTTGGTG GGGGTAGGGA GGGGAGAGTT AACCTGCTGG 180
 CTGTGAGTCC CTTGTGGAAT ATAAGGGGGT AGTGGGAAAA GTGGTACTAA CCCACGATTC 240
 TGAGCCCTGA GTATGCCTGG ACATTGATGC TAACATGACC ATGCTTGGGA TGTCTCTAGC 300
 TGGTCTGGGG ATAGCTGGAG CACTTACTCA GGTGGCTGGT GAAATGACAC CTCAGAAGGA 360
 ATNAGTGCTA TAGAGAGGAG GAGAGGAGTG TACTGCCCAG GTCTTTGACA GGTGTAATTC 420
 TCATTCAANT AAAGGTTTCA GTGTTTTTGG TTAAGGTGGA TAAA 464

SEQ ID NO:3419

LENGTH:457

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04026

SEQUENCE DESCRIPTION:

GATCACCTTC CTGTCTGGAG GCCAGAGTGA GGAGGAGGCG TCCATCAACC TCAATGCCAT 60
 TAACAAGTGC CCCCTGCTGA AGCCCTGGGC CCTGACCTTC TCCTACGGCC GAGCCCTGCA 120
 GGCTCTGCCC CTGAAGGCCT GGGGCGGGAA GAAGGAGAAC CTGAAGGCTG CGCAGGAGGA 180
 GTATGTCAAG CGAGCCCTGG CCAACAGCCT TGCCTGTNAA GGAAAGTACA CTCCGAGCGG 240
 TCAGGCTGGG GCTGCTGCCA GCNAGTCCCT CTTCTGNTCT AACCACGCCT ATTAAGCGGA 300
 GGTGTTCCCA GGNTGCCCCC AACANTTCAG GCCCTGCCCN NNTNCCAAC TTTTGAAGA 360
 GGAGGNCGCC TTCTTNGGGG GCTTCCAGGT TNGGNTTNC CCGGNTTTT TTTTTTCCC 420
 TTGGGTGANA NATGGGTNGT TTNGNGGCG GTNTTN 457

SEQ ID NO:3420

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04028

SEQUENCE DESCRIPTION:

GATCTGGAGG GGTCAACGGA AGACGGAACA TGTCCACTTC CAGGCCCGAG CTTCTNAGCC 60
 TGCCGTTTGC CACTCTCCAG CATCTGGCCC AGCCTGTCCA TCCTCATCTC TCTTCTCCN 120
 NNACTCCGTG CTCCCATCAC TNGGAACCAT TTGCATTNT TGTCTCAGC TATATTGTCT 180
 CACCTCTGAG TTTTGGCCCA TGATGTTGGA TGCCATGGAA TGCCATATCN TCCCATTAT 240
 CTCCCCTTG TNTGGATAAT TCCTACTCAT CCTACAATAC TGATTTTTAT CTGTGCAAAG 300
 AAGGTCTTCC CCAAGTGGCC TCTGGGTTNG ANAAGGGGNG TTCCTCTGGC TTNTCCAGA 360
 CTTTTTTGTT TCCTNCAACC AAAAGGCTTT AGGCACCGTG GGGGAAGGAG GGGTNTTNT 420
 TNGTCCNAGG GAAAAAGNNT NGNGGCAAT GN 452

SEQ ID NO:3421

LENGTH:450

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04029

SEQUENCE DESCRIPTION:

GATCAAACT AACCTTTCAG CGTATTCTCA GCTATGACAC AGTGGTGCAA ACAACTGGAG 60
 ACTCGTGGCA CATACCATAT GATGAAGACT TGGTAGAAAG ATGTTCTGT GAAGTACCAA 120
 CCAAATGGCT TTGCCTCCAC CAAAAGACAT AGAGATTCTT ACCTCTATGC TAAGTTGTG 180
 TTTGGGTACC CTCTAGGTG GCATCAGAGG CTCTTGAGCT GGTGTTTGT TAGGGCATTG 240
 CCTCTGTCCT GAAGATAAAA GGATTNTATT AACAGCATTG ACATTGATT TTTAATGAAA 300
 TGAGATATAT CTTTCATAA CCAGCTGCGT TTTTTTCCCC TAACATTGT TTTGGAGGG 360
 CTTATCAAGA GTTGGAGACC TTAGTGTAGA GCAAAACCTG CATTTCTCCT ACTGGGCCAG 420
 CTATTCCACT TAGGCTTGGG TGAATAANAN 450

SEQ ID NO:3422

LENGTH:444

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04030

SEQUENCE DESCRIPTION:

GATCCCAAGT ATTAGGAGCT ATTTCTTAAA TAGTTTAAAT TTGCCTTTGA AAAAAGTTCC 60
 ATTACTTAAA AGTATTAATT TAAGCAAAAT CATGGAACAC ATTGACTAAA AAATACCTTT 120
 TATTTTTACT CAACTTGTTA AAGGGGCAGA TAAAGACTTT GGCAAATTTG ATTAAGTGA 180
 CAAAATAATG TTATCCAAAC TGAGTAATTT ATTGCTGGTC TGNGGCTTGC CTTGTTTACA 240
 CTTAAGTAGA ATTTACGTTG TTTCCACAAA TGGCAGATAT CANCATTTAA AGGNATTTAA 300
 TAGTGACCTA TTCAATAAGG CANTCATCTG GGGTAGCAAA CTTTTNTTA ATCTNACAT 360
 AACCTCAGGC TTTATAANAA NGCCACCATA ATTGGAAAAT TGGGGNTCCT CCCCTCTAAA 420
 NGCCTTAAGG GATTCAAAGG CTCN 444

SEQ ID NO:3423

LENGTH:439

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04031

SEQUENCE DESCRIPTION:

GATCTTGGA AAATGCTGTT AGTATCCAAC CTTAAATAT ATTAGTATAT GGGTTTTTAT 60
 TAAAAGAATT ACTTTGAATT TNCTATTTAA TTCATATGTA AATAAAGGAA CATTCATTT 120
 CACTTAAAAA AATTATATCA GTTATTAGGC TGGGTGCAGT GGCTCATGCC TGTAATCCCA 180
 GCACTTTGGG AGGCCAAGGC GGGTGGATTA CCAGAGTTCG GGAGTTTGAG ACCAGCTTGA 240
 CCAACATGGA GAAACCCCGT CTCTACTAAA ATTACANAAT TNGCCAGGTG TGGTGGCGCA 300
 TGCCTGTAAT CCTGGGCTAC TCAGGAGGCT TGAGGCAGGN GAATNGGNTT GAAAACCCCN 360
 GGGGGNNAGA GGTTCGGGT GAGCTGAGNN TTGCGCCATT NNACTTCCNN CCTGGGCAAG 420
 GNGGGGNGNA ACCTNTNNN 439

SEQ ID NO:3424

LENGTH:437

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04032

SEQUENCE DESCRIPTION:

GATCTAAGAA ATCATGTGCA TATATCTTTC AGATTCTAT TTTGGGAAAN TGAAGGTTTC 60
TACAACATAT TGTTTCAGTG TTCAAATAAA CTGAAGGACT CAACATTACA TTTGAACTAT 120
ATCCTTCCTA GTGGGTTAGT GTGAAAAAGN GNTTGGCTGA TTCCTAAAAC TCTGCCAGCC 180
CTGCAGTAAT CTCCAGGGNC NNGTTATTGT TCAGACATTC CNTGGTGATT CCTGGGAAGG 240
AAGCTTGGCT GCTCAGTTTC TGAGTCTGGG GTGAGATAAT GTTCTGGGAA GGGACATCTG 300
TTCTTTGGTG TAATCTCTCA TGGTGAAATC TGCTCTGTAC ATCAGACAAT TGCATTGCTA 360
CCAAGTTTCA TACCAATAT TTGAAAGGTT GGTATTGAAT CTAAANCCAA ATATTAGTTT 420
TTNTTAAACT CATGGGN 437

SEQ ID NO:3425

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04033

SEQUENCE DESCRIPTION:

GATCCAAACC TTACACCTGA GTCTGTTAAG AGCGCCCTGC TACAGGAGGC CACAGACTGC 60
CTGATTCTNN NGGACCGCTG TTCTCAAGGA CGGGTAAAGG GTCTCCTGGC CAAAATTTCC 120
CAAAGCTGTG AAGACAGAAA AGTGGTGAAC TATATCAGAA AAGTGCAGCA GGTTTCTGAA 180
GGCGCACCCT ACAATGGAAC TTAAGACTTG TATTACTTTC CCAAGAGGAA AGGATTTTTT 240
TCCCATCCCN NNTTGTATGA ATGGAGTTAT TTANGAAAAA ANGATATTTT TACACGAAAC 300
TTTGTAAGTG AAAGCTGCTT TTTCTTCCT TTTCTTCCT TTTACCTCCA TAAGGAATAG 360
GGAANGTAGG ACCAAGANAN AATTGAACTC CTTCCCATTT TCTAAATAAA GGTTTGGGG 420
GAAA 424

SEQ ID NO:3426

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04034

SEQUENCE DESCRIPTION:

GATCTCNGAG CTACAATACT CACTANATAT ANTTTTCCAA TCAAAATATN CTATTCTATA 60
TTCTAAGGGT TAATATGTGA TTATAGTGT CACTGCCAC CATTTTTTA AATCAATGGA 120
CTTGAAAAGT ATTAATTTAG ATGGATGCGC AGATATACCC TCAGTTCAGT CATAGATTGG 180
AGTTTGCATA TAATANNNCN CCGGTATGTN GACACTATTC TAAATAGTTC TATTATGACT 240
GAAATTTAAT TAAATAAAAN NGGTTGTAAA ATGNGATGTG TATGTGTATA TACNGTATGT 300
GTACTTTTTA AAATAGGGTG TATGTCCCAA CCCTTTTTTA TACAGGNTG AATTTAAAAA 360
TACCATGGTT ATATACATAT ACCTNGNNTT NGTCCTAAAA TAAAGGNTT TNATGCACGC 420
NN 422

SEQ ID NO:3427

LENGTH:408

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04035

SEQUENCE DESCRIPTION:

GATCTTTCCA CCTCAGCCTC CTGAGTGGCT GGGACTACAG GTGCATGCCA CCAAGCCTGG 60
 CTAACCTTTT GTAGAGATAG GGTTTTNCCA TGCTGCCCAG GCTGGCTTAG AATTCCTGAA 120
 TTCAAGTGAT TTGTCTGCCT CAGGCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACAC 180
 TGCACCCAGT CCATGCTACC CTTTTATAT GAAACACCTA TTAACACGGT ACAACAACAC 240
 TTCAAAACAT ATTATTTGAA TTTNGGCNTC TGATTTTTTA GTCANCAATC CATTANGGCA 300
 AANACCTNGT TTTCCAAACT CAGATGTTCT CCAACTTACA CTAATGINTG GTTTTTTTGG 360
 ACTTNGGTGN GGGGAAAAAN TTAACCNGGT TTNNTTTN TTATCAAA 408

SEQ ID NO:3428

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04036

SEQUENCE DESCRIPTION:

GATCTTAGCT TCTTTAATCA GACTTTGTGA CTTAAAAGTT TGGGGGTTTT CTTTGAAAGT 60
 TTCCAGCCCT ATTCAGAAAG CAACTCTTGG CTGTGTGCAT TTTTCACTC CAAGCAGCCC 120
 AGGGGTAAGT AAACAAAGTA TGGATGAAGG TCAGATTTTN TTGTCANNNT CTGAGAAACC 180
 TGGCAGCCTG CTGTTAACAA CACAGGCCAG TATTGGGTTT TATTGAATTT GGTATGTGAC 240
 CAAGGTCGGC CTAAAGGATG GCGCAGGTCC TGGGCAGGAA AGAATTTTTC CTTTATCACA 300
 TAACTGTAAT ATTTGGTTGC TCAGCATAAG TNATGGAAGC AACCACCTAA TTTCTAATAA 360
 ANTTGTGTGA ACCTCAAA 378

SEQ ID NO:3429

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04037

SEQUENCE DESCRIPTION:

GATCACAACA CCAGTACCAG CACGAAGAGC CTCCTCCCGA AAGAGTCTCG ACTGGACACC 60
 TTCTGGGACT AGCAGTGAAT CGGGACACAA ACCACCCACC CCATTGGGAG AAAAACCAG 120
 ACGCCAGGAA AAGAAGAAAC AACAAAGGCA GGAGAACAGC CACTTTCAGA CTGAAAATG 180
 ACAAACCCCT CAGTTGAGCC TGAGCCCCG GCGCGGGGGC TGCTACACTA CAGGACACCC 240
 AGCATCGGCT TTGACTGCAG ACTGTTACC CACACGAGCC CTGTGCTTTT GGTGTAAATA 300
 ATGTACAATT TGTGGATGTC ATTGAATCTA GAGGACTTTC CCCTTTTAT ATTTGTATTA 360
 ACTTTAACTT ATTAAA 376

SEQ ID NO:3430

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04039

SEQUENCE DESCRIPTION:

GATCAAGCTT GTGTAATTGA CCGTTTTTAT ATTACTTTTG TAAGTATTCT TGTCCACATT 60
 CTACTTCAGC TTTGGATGTG GTTACCGAGT ATCTGTAACC CTTGAATTC TAGACAGTAT 120

TGCCACCTCT GGCCAAATAT GCACTTTCCC TAGAAAGCCA TATTCCAGCA GTGAAACTTG 180
 TGCTATAGTG TATACCACCT GTACATACNN NGTATAGGCC ATCTGTAAAT ATCCCAGNGA 240
 NCAATCACTA TTCTTAAGCA CTTTGAAAAAT ATNNTATGT AANTNATTGT AAACTTTTTC 300
 AATGGTTGGG ACAATGGCAA TAGGACAAAA CGGGTTACTA AGGTGNAATT GNCCAAAAAA 360
 TTTTTTAN 368

SEQ ID NO:3431

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04040

SEQUENCE DESCRIPTION:

GATCAATCTC AATTCCTTTT CATGCCCTCC TGCATTGCTG CTGCGTGGGT ATTTGTCTCC 60
 TTAGCCATCA GGTACAGTTT AACTACAAT GTAAGCTATA GGTGGAGCAT CAGCAGTGAG 120
 TGAGGCCATT CTTATCCTT AGGATGTGGC AATGAAATNN TGGTGCAAGT TCCTTTCTCT 180
 TTTGTGAATC TTTCCCCCA TTTCTGTTT ACATGTAACC CAACAAAATG CAATTTCTAG 240
 NGCCTTCTGT CCAATCAGTT CTTTCTCTG AGTGAGACGT ACTTGGCTAC AGATTTCTGC 300
 CTGTTTTGC GACATTNNTC CCATTCACAC AGNTATTAN GGGGCTAATN AANNGGANAA 360
 ATAAGGCTTA CAAA 374

SEQ ID NO:3432

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04041

SEQUENCE DESCRIPTION:

GATCCTGGAG AACCTAAGAC TCCAAAAGCG TGGTACTGGA GGAGTGGACA CTGCTGCCAC 60
 AGGCGGTGTC TTAAATATTN CTAATTTGGA CCGACTAGGC AAATCANAGG TGGAGCTGGT 120
 GCAACTGGTC ATCGATGGAG TAACTATTT GATTGATTGT NAACGGCGTC TGGAGAGAGG 180
 CCAGGATATC CGCATCCCCA CACCTGTCAT CCACACCAGG CATTAATCC CCATCGNCCA 240
 GCTGATGACT CAAGATTCCA AGGAGTTCTG CTCATTCTAA TGGTGGGCGG TTCTACTTGN 300
 TCTGGACCTG NCCTNGNATC CCCNTNGNCC TNTNNTTCCT TAGTTAAAGA CTTNGTTAGC 360
 TGATGNAAA 369

SEQ ID NO:3433

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04042

SEQUENCE DESCRIPTION:

GATCGTGGGG TTGTTGGCAG AGGGCAACCC TGGGCCCCAC ACCGTGTGGA CAGGCAGACA 60
 CCAGATTGTC CAGGAGCAGG AGCTGCTGGG ACTGCGCTGG CCCCAGACCT AGTGGGCCTT 120
 CTCCTGGCTG CTGAGATGTC GTCTGTGACT GGCCTGGCTG GAGGGGGAGT GTTGACAACC 180
 CAAAGCTGTT CTCCAGTCTG GGGAGGGAGA GGCAGGGTCC CCAATGTCCG AGCTGNATCT 240
 GGACGCTGCT CTAAAGGAC CTCCTGGGGN AGGGGAAGCG GTAGGNTCTG GACTGGGNAA 300

GATGCTGTAT GACCTCCCTG AAGNACCCGT GACTTCCCCA TGNTTTACCC TTTTGTGN 358

SEQ ID NO:3434

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04044

SEQUENCE DESCRIPTION:

GATCTAGAAA GCAACTTGA AGTGTAAGA GTCACCTTCA TTTTCTGTAA CTCAATCAAG 60
 ACTGGTGGGT CCATGGCCCT GTGTTAGTTC ATGCATTAG TTGAGTCCCA AATGAAAGTT 120
 TCATCTCCCG AAATGCAGTT CCTTAGATGC CCATCTGGAC GTGATGCCGC GCCTGCCATG 180
 TAAGAAGGTG CAATCCTAGA TAACACAGCT AGCCAGATAG AAGACACTTT TTTCTCCAAA 240
 ATGATGCCTT GGGGTGGGGA GTGGTAGGGG GAAGAGCTCC CACCCTAAGG GGCACACACT 300
 GAGTTGCTTA TGCCACTTCC TTGTTCAAAA TAAAGTAACT GCCTTAATCT TAAA 354

SEQ ID NO:3435

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04045

SEQUENCE DESCRIPTION:

GATCATTAAAT GAGGAGCTGA TGGCCTCCCT GGACCAGCCA ACACAGACAN TGGTGATGCA 60
 CCGCACTGAG CCCACTGCCC AGCAGAACCT GGCTCTGCAG CTGGCCGAGA AGCTGGGCAG 120
 CCTGGTGGAG AACAACGAAC GGNTGTTTGA CCACAAGCAG GGCACCTACG GGGGCTACTT 180
 CCGAGACCAG AAGGACGGCT ACCGCAAAAA CGAGGGCTAC ATGCGCCGCG GTGGCTACCG 240
 NCAGCAGCAG TNTCAGACGG CCTACTGAGC TCTCCACTCT GTTTCCCGCC TGGGCCATCC 300
 AACCTTGAAG TCCTAAACCA CACCTCAGTC ACTAAAGGTC TGTTTAAAGT TAAA 354

SEQ ID NO:3436

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04046

SEQUENCE DESCRIPTION:

GATCTAATTT ATTTATTTAT TGCCTGGCCG GTGACTCGGG GGAGGAGGCG ACCCTGTCAT 60
 CTGTCCCACC TGCTGCTGCC CCTTGGAGCA GCCTGCACCT NCTCTCCTCC CATCCGGCAA 120
 CAGTNTGAAA GTACGTGGAG GACGGGACCG GAAGACGAGA GAGGGCTGGA CATCCTGCCC 180
 ACCGTNTCCC AGCCAGGGCA GGNGAGGGGA CCATGGCCCG NANGTCAAGG GGCCCCGATG 240
 TGCACAGCTG CCACAGGGAG GGAGNTCTTG GGGAGATGGG CANTCAGGTG GCCCGTCCTT 300
 GGTNGAGTGC ACANANTTGC GCGNACANAT CGGGGTTTTT CCTGGNTTTN 350

SEQ ID NO:3437

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04047

SEQUENCE DESCRIPTION:

GATCTTGAAT CTCTTTCTTT GTTCTGTTTG TTTAGTTAGT ATCATCTGGT AAAATAGTTA 60
 AAAACAACA AAAAAGTCTG TATCTGTTTC TAGCATGTGC TGCATTGACT CTATTAATCA 120
 CATTTCAAAT TCACCCTACA TTCCTCTCCT CTTCAGTAGC CTCTCTGAAG GTGTCCTGGC 180
 CAGCCCTGGA GAAGCACTGG TGTCTGCAGC ACCCCTCAGT TCCTGTGCCT CAGCCCACAG 240
 GCCACANTGA TAATGGTCTG TTTAGCACTT CTGTATTTAT TGTAAGAATG NTTATAATGA 300
 AGATACACAC TATANCTACA AGAAATTATA AATGTTTTTC ACATCAAA 348

SEQ ID NO:3438

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04048

SEQUENCE DESCRIPTION:

GATCTGAGCC ACCCTCCCGG CACAGCCCTG CACCCCGCCC CTAGGGTTGG CAGNCTCANT 60
 TGGCCCTGG CAGAGGAACA AGGACACAGA CATTCCCTCA GTGTGGGGGG CAGGGGACAC 120
 AGGGAGAGGA TGGTTGTCCC TGGGGAGGGC CCTCTGGCCC CAGGCAACCT TAGCCCCTCA 180
 GAACAGGGAG TCCCAGGACC CAGGGAGAGT NTGGGGACAG GACAGCCTGT TTCTTNTAGC 240
 TTCCTGGGGT GGGAGGCACA GGGGCAAAGC ANTACCCAG GGAAANTGGG AGGTGGTGCT 300
 GGTGCTCTCT CCAGGNCCAC CATGCTGGGA GAGCGGCCA GAGCTTN 347

SEQ ID NO:3439

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04049

SEQUENCE DESCRIPTION:

GATCTTCCCT GGNCGCCTTC GGCTGCNTGC NTGCCTGAGG TCCNGCTGC CAGTCCCGGG 60
 CCCTGGAGAG CAGATGCTGT CTGTGNATGT ACAGGAGGAC CTTTTAAAAA AATCAAGTTT 120
 CTATTTTTTN CTGGTAGTCC GCATACCCAT ACCCTCTGTT TTNAAAGGC AAAGGCCAAT 180
 NAGTCCCAT TGTAGCATG GCACCAGGGT CTTAGGCCTA GTCCTCTCAT TCCTCCCACC 240
 CTCCGAGATG GTCAGTGTGT CATGGGAAGC CCACCCAG CTCTGCCAGT GCTCTCTGGG 300
 CCTGGNTCCN AGTCAGTGGT GGCCACGATG CGGTACAGGG CATCCN 346

SEQ ID NO:3440

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04050

SEQUENCE DESCRIPTION:

GATCCATGTG ATTATTAATA TGACTGTAGC TGAGAGCTCT AATTNCCTG TCTTGAAACT 60
 GTATAAGANC TCATGTGATT AAGTTCACAG TTTATTGTTT GTNTGTTTAG TATTTNAGAA 120
 ATATACCAGC ACTACTAATT AACTAATGTC TNTNATTTAT NATATTATGA TAAAGTAAAA 180
 NTTTCACTTG CATTAAGTCT AAAGTGAGAA GGTAATTACT GGGNGNGAN TGAGCAGCTT 240

TGACTTTGAC AGGCGGTTTG TGCAGGAAAG CACAGTGCCG TGTTGTTTAC AGCTTTTCTA 300
 GAGCAGCTGT GCGNCCAGGG TAGAGGAGTG TNGAAATTCA TTN 343

SEQ ID NO:3441

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04051

SEQUENCE DESCRIPTION:

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGGGAACC CCCTTCGTGT TTTGTAACCC 60
 TCCCTTTNAG GTGAAGCCCT TTTTCTTGCT AAAACCGGCA ATTCTCCGGT TAGAAATNTT 120
 ACTTGGTGTT TTTTGGTTTT GTGAAACGGC CGTCCCAAAG CTGGCTGGAT TCCTAGAAGA 180
 GTCTGTGTTG AAGGCATCTT TCAAGCCCTC GCTCTGGTTC TNAGGCGAGC ATTTCCAGG 240
 CGGGTTTGGT TTGCATTCTT TGGAGCCTCT CCGNGNAGCA ACCAGACGGG AGATTTTAAT 300
 TTTAAGCTGT TCATGCTGGG NCTGACAGCC TGCAGGGTTN 340

SEQ ID NO:3442

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04052

SEQUENCE DESCRIPTION:

GATCCTTGGG CTGGCCTAGA ACCAGTATCT GTAGTGGATA TAAGCCAACA ATACAGCAAT 60
 ACTCAAACAT TCACAGGCAA AAAAGGAAGA TACTTTTNTT AACATTTCTG AAATTCAACT 120
 GGAAGCTTCA TGTGTCAGGA ACATCTTGGA CAAACTTTA NGTTGTGTTG ATATAAATTT 180
 ACCCAAAGAT GATGNCTTTG ATTGGNTAAT TAGTAAGGTC TTTTGTAT TTTNCATCGT 240
 ATCAGGTATT GTTGATATTA GAGAAAAANG TAGGATAACT TGCAACATT AGCTCTGGAA 300
 GTACCTACCA CATTTTNGAG ATTTACCGTT TCCATATTN 339

SEQ ID NO:3443

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04053

SEQUENCE DESCRIPTION:

GATCTGCCGT TNATGTTGCT TTCTCCTTTG TCCTCTTGGA CTTGAGGGCA TTGTGAAAAG 60
 CTTTGCTGTG ATTTAAAAAT GCCAGCAATT TTAATCTAGC AGTGTTGAAG CTGGGAATTT 120
 TTTGGCGCAA TCCATGTAGC AGTGACCCAG GCTTGGGAGC CAGAAACAAG TGTGACCTGG 180
 GATTTNATTT AACACAACCTG TTGCCAAAGA GTTGCTTTG TTTATTTGGT TTTGGCGGGG 240
 AGAGGAGTGG TATTTNATGC TTTCTGTGGA CANTGTAACC CTAAACACAN CANGTATTTT 300
 AANTGCCACC TACATAANTA AACCATANGC NTATTGAAA 339

SEQ ID NO:3444

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04054

SEQUENCE DESCRIPTION:

GATCTACATA AAAACTGCTA CATGNCAAAA ACCACACCTA AAGAAATTTT AAGAATTTGG 60
 CACAGTTACT CACTTTGTGT AATCTGAAAT CTAGCTGCTG AATACGCTGA AGTAAATCCT 120
 TGTTCACCTGA AGTCTTTCAA TTGAGCTGGT TGAATACTTT GAAAAATGCT CAGTTCTAAC 180
 TAATGAAATG GATTTCCAG TAGGGGTTT TGCATATCAC CTGTATAGTA GTTATATGCA 240
 TATGTTTCTG TGCATGTTCT CTACACAATT GTAAGGTGNC ACTGTATTTA ACTGTTGCAC 300
 TTGNCAACCT TTCAATAAAG CATATAAATG TTGGTTAAA 339

SEQ ID NO:3445

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04055

SEQUENCE DESCRIPTION:

GATCAGCCTC TTCCTCTATA AACAATGACC AATTAGACGT TTCCGTAATT CCATGTATTA 60
 TGTATAGTAC ACTCTATAAA TGTAATGTA ATGCTTGCTT AAAAAAGTGA ATTTATTGTA 120
 CATTGTCCCA ACAAATGTTT ACTTTTATAA TCGTTATGAA CTTGAATTGG ATTAGTATCT 180
 TGTTTTATG TGTGAATGAA GCCTTGTAAT ATAAACAAAT GCAACTGAGA AGGTAACAAG 240
 GTGACTGTTT TTGTGAGCCA GTGATGTTTT CAATGCTTTG TGTTGCCCTT TTGGCCCCAT 300
 TAAGCAGTAA TAAACATTG TTCTGAAGTC CAAA 334

SEQ ID NO:3446

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04056

SEQUENCE DESCRIPTION:

GATCCAAAGAA GCGGGTCCCT GAGACGGGGG GTGGCTGCCC TCCCAGACC ACCCGGCAG 60
 CCTGAGCAGN TCCAAAGCAC TGGCTTGGGG TCCGAGACCT TCAATGTAAA GCAGGCGGAA 120
 TGGGGGGACA GGACAATTTC TCCCCTCCA GGGGCTCCAG GACTCTCCCT GGGGGGCCCA 180
 CCTCTTGCCC CCTAACCTCT TTCCCCTTT TCTGCCCCCG TGGGGAGGAG CCCCTTGTA 240
 CTGCTCCGTG CCCAACACAT GCCCTCTCTG TACATCTTTT GGTAAATNAT GAGAAATAAA 300
 GGAAGTGGAC GCAAAGTGA TGCGGCAGCA GAAA 334

SEQ ID NO:3447

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04057

SEQUENCE DESCRIPTION:

GATCCAATCT CAGTGTCTAA CTCATCATCC CAGATTATC TGAAGTGGAA ACCACCCTCC 60
 GACCCCAATG GCAACATCAC CCACTACCTG GTTTCTGGG AGAGGCAGGC GGAAGACAGT 120
 GAGCTGTTTC AGCTGGATTA TTGCCTCAAA GGGCGAGTCC AGTCATCAGC TCCGCTGTAA 180

GCTGTTGGCC CTGCATTCAA GTAACCAGAA CCACCCGTGA GAGCTGCCAC CAGGTANTGT 240
 CACTCGAAGC TTCCTTTTTT TTTTTTTTNA ATTCCGGAAA GTTTAANTCT GTANTCCCAG 300
 GGGNCCATTT AAANANGGTT TTTTTTGTGTA AN 332

SEQ ID NO:3448

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04058

SEQUENCE DESCRIPTION:

GATCCAAAAA AAGCTNGAAG CCTACATTTC CCAGAGCCCC TTTCAGCTTG AATTCCAAAT 60
 GTGACTTAGC TTCCTCTATG CAGATGTACC TACTTGAAAC TGGGAAGGCC AAATNAGATA 120
 GAGGNAATNT TTCTGCCAAC AACAGCCAC AGAGCATTTT ATTTTCTAG AAGAGCAATA 180
 ACAGAGACCC CAGGGTGTGG TGTGGCAGGA CGAGGAGCAT CCATTTTGCT GGNGGGGATT 240
 GTGGCTAAAA TAATGNGGCT CTGGAGCCAG CAATNGGCAG CATCTTCATG ACTTTCCAGN 300
 TTCCAGGCTG TAAGCAGAGA TAGCATCTCT TN 332

SEQ ID NO:3449

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04059

SEQUENCE DESCRIPTION:

GATCCACTAT ATGCCCTCAGC ACATGGAACC TTAATGACCA AAGTGAAGAG CAGATTATTC 60
 ATACGGTGTA ATAAGCATCT GGAATGGACC CATCCGTGTA CTCATTCAA ATGTGTAAAT 120
 GTCATATTCA TTCAGATTTA TAAAGCTAGT AGTGTATAGT CAGAAACAGA ATCAAAGTTA 180
 GATATACATT TTAAATATT TACTGCATAT GAGGCTTTCT GTTAATTTTT TAATGTGAAT 240
 AATTTATATA TTGCACATTC TAGGGAATAA TATTGATTGT ATGNCTACTG TGCTGCATTA 300
 AGAAAAATAA ATTCCTATAT NCCAAA 326

SEQ ID NO:3450

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04060

SEQUENCE DESCRIPTION:

GATCAGAAAA ACTGAAGATG GAAGTTTGG CCGGTGCTCA TTAGACATGA GTCCTCACTC 60
 TGTNTCCTGA GCCCGTTTCA TTCTTCCAAC CTCCTGCCC CCACACACTT ATCCCAGACA 120
 CAACACCATG TGGTCTGGAG GTCCCAGCCC CCACCCTAAA AAGGTTATCC CNGAGAACTC 180
 CACCAGACTT GGGAGCCCAA GTGCAGTGCC TGGNGCTGCT CCCATCTGCC GGCCCCNTTC 240
 TTTCTNGCA ATGGTTTGN ACTCACTGGG CTGTGCTCTN CCCTGTTTAC CCGATGNNNG 300
 GGAAATAAAG GCCCTTTTGC CTCCTGAAA 329

SEQ ID NO:3451

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04061

SEQUENCE DESCRIPTION:

GATCTGGCGC TTCTACTTTG AGGGCTTCTT TGACCTCATT GCTGTGGTAN GCCGGCGTAG 60
TCCAGACCAT CCTATACTGT GACTTCTTCT ACTTGACAT TACAAAAGTA CTCAAGGGAA 120
AGAAGCTCAG TTTGCCAGCA TAAGTGCCAA AGGCCATCAC CAGCATCTGT CCTTCAGGGT 180
GCTCGGACAG ANTTNTTACC ACAGCAANGG CATAAGGTGC TTTATACGGA AANTCAGNAA 240
CTTAACTCTT TTGTTGCAGN TAGTCATCAG TGGCTCTGTA AAAACGGAGG GGGAAAGNGN 300
CNGGAGGTTT CTGTTTAATG CATCN 325

SEQ ID NO:3452

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04062

SEQUENCE DESCRIPTION:

GATCTGATTT TATGTTGTA ACTTTCTGTA AAGAAAGACA CAAGGACTTT TCAAAGACAG 60
TTTATATCTT TCCAAGGCAG GAAGCTTTGC ATTTGCAATC TTAGTGTTGT GTCCCTTCT 120
GATTTTCAAA TACATCACAC CTGCCTTCCT GTTTGGGAG CAAAGATGTA ATTTCAATTC 180
CCCTTGCTAC CGTCTTATT TAAATNATTT CCATTCTAAG AGATTTTNGT NATTTNNNTA 240
AATGTAATCT GAGCACTTNN TNGTATTCTA AAAGATAGAT GATATCAGAT AAATATGTTG 300
TACATTTTGA TTAATAATTAT TTTN 324

SEQ ID NO:3453

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04063

SEQUENCE DESCRIPTION:

GATCTGGAAG ACAGACGTAC AGCTTGGAGG GCAGGGGGAC TCTAAGGCAA GGAGATTTAC 60
AGTTGGGAAG GAGGCAGTGG CAGAGGGGTG AGGGACAGGG GCCCTTAAGT CCAGCGAGGA 120
AAGCTCINTG TGGGCCCGCT CTACGCTCCG TTTGGGGTGA CCTGGAACGC CTCTTCTCCC 180
AGCTCCCTCC AGCCATCAGC AGCCTCTGT CAAGCTTCTG CCTCGCCCCA GTCTATCCCC 240
AACCCCAAAT CAAGACCACC TTTCTTCAGG GTCATATTT ATTCTTTGTT CCTTTTCTT 300
TTTGTAAGAA ACATTCACAA AAACCAGTGC AAAACCAAA 339

SEQ ID NO:3454

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04064

SEQUENCE DESCRIPTION:

GATCTCAATG CTGTCTGGGG ACCCTGAAGA GTTTNTNAC CTGTTGAGTC TCATCTAACC 60
TTCCAATGTN TGATGTTCTT GCCAAATTCC TGCCTGATTC TGGGTCCGTC CTGACCTCCA 120

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AAGGTCAGNT TGGTGCTTGA GGTCTCCNTG CTCTTGGTGG CAGTGGTAGC AGCAACAGCA 180
GCAGCAGCAG CAGCAGCAGC AGCAGAGACC TNTCCACTTT CCCTTAGCCC TNTGNTGGGT 240
AGAGGGAACT TAAGGGACTT CCTCCAGNNG CNTTTAATNT GGAATGGGT AAGAAGGTTG 300
NGCTCCNCTG TTNGTTN 317

SEQ ID NO:3455

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04065

SEQUENCE DESCRIPTION:

GATCCTCAAA AAACCCAAAA ACACCATTCT CTAATAGTCA TGACAAATGG CTTCAGTATG 60
GCTTGTTTT NATTTNCCAG ATGGCTTTT CTCTTATTT TNGAAGCCCC AGTCTTTGAT 120
TTTACAGGTA ACTTTCAAAA CATCATGATG CTGCCAAATG TACTTTTGTA AACTTAAACA 180
TTATGATTCC TGTATTATTT CAGTGAGAGC TACAGTGTGA TATTNCAGAG TCTATTAAAT 240
AAAAATGTGA GTTTGAATTA CACCATCTGT GCCAATTACA AAGCAATTAA AGGATTTATN 300
TNTNATGAAA AAAAN 315

SEQ ID NO:3456

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04066

SEQUENCE DESCRIPTION:

GATCTGAGGC TGTGTCTCTG CCTTGTTTT AGAGGACTTC AGCGTCCAAG ACTGGGGCCC 60
ACCNTTNTCA CCAGCACTAA ATGCACTAAC AAGGACTCCA GACCTGCAGC CCCAGACCCG 120
CCGTAGTATA AGCCTAACAA GCAACANGTA GCACCTTAGT CTTTGTTCCTA GGAGAGCTGA 180
GCAAGCTGGT GAAACCACTC TCCTTCCTTT AAACANCGTT TCAACCANCC TTTNCNTGGA 240
GCCAACNTGT AAAAAGTGGG TTGATTGCTG ACAGNATGGT CTTCTTCCC TGGATTNAG 300
ACATACCAGT TN 312

SEQ ID NO:3457

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04067

SEQUENCE DESCRIPTION:

GATCTTTCCG GGGCCTACAG GCGTGAAGA CAGCTTGGTC TGGTCTGTGC AGAAGTGGGG 60
AGTGATGGGC AGGTTCCGCA GCCTAACATT GTTCAGGCGC ATGGCCCCTG CGGTGTGTAC 120
ACGAACTCGG CTTCTTTTGT CTTAGGTACG CCAAGGGCAG GTTCTGGAG ACTCCCTTGT 180
GCCCCGGATG GCAAGGGCAC CGGGCTGGCG TTTCCACATC TGTCTTCATT AGCAGANNAG 240
TGATGATGGA TTTTATTTC CTCACACTCC AGTTTGTAAT AAAATGCCAA ATTCTGTCAG 300
CTATCCAAA 309

SEQ ID NO:3458

01151

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04068

SEQUENCE DESCRIPTION:

GATCAGCACC ATTTGTGGTA TGTTCCGTGA TGAGCGTTTA GTGAGCCTNN TGGCTGCAGA 60
GCACTATGAA ATCATGGTAC GTAGTCCCG GCACCTGTCG TTATTCCTAT ATCCTCCTGC 120
AACTGTGGTT TGAAACTGCG CATTCTCTAG TAGTATATAT CGTGCCTGTC TTCAAAAACA 180
TTTCCCTNN GTATACTCAT NCCCCCAGG CATTGGGGTA GTGTCAGTCG GACTGCACAG 240
GGAACACGGT TTCCAGTGGC TTTGGCCCCT ACTCGGGAAA CGTCTGCCTG TTCTCGATNG 300
TGATGGGGN 309

SEQ ID NO:3459

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04069

SEQUENCE DESCRIPTION:

GATCTAGCTG GTCACGACGA TGTTTTACC AAGGTCACAG GAGCATTGCG TCGCTGATGG 60
GGTTGAAGTT TGGTTTGGTT CTTGTTTCAG CCCAATATGT AGAGAACATT TGAAACAGTC 120
TGCACCTTTN ATACGGTATT GCATTTCOA AGCCACCAAT CCATTTTNTG GATTTAATGT 180
GTCTGTGGCT TAATAATCAT AGTAACAACA ATAATACCTT TTTNTCCATT TTGCTTGCAG 240
GAAACATACC TTAAGTTTTT TTTGTTTTGT TTTGTTTTT TTGTTTTTNG TTTTCCTTTA 300
TGANGAAA 308

SEQ ID NO:3460

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04070

SEQUENCE DESCRIPTION:

GATCAAGCAG AGAAANTAAT TAATTTTCATG GGAATAATG AACTAGTGAG GATAATATTT 60
NCATAATTNT TNATTTGAAA TTTTGCTGAT TCTTTAAATG TCTTGTTC CAGATTCAG 120
GAACTTTTT TCCTTTTAAG CTATCCACAG CTTACAGCAA TTGATAAAA TATACTTTG 180
TGNACAAAAA TTGAGACATT TACATTTCTT CCTATGTGG TCGCTCCAGN NCTTGGGAAA 240
CTATTCATGG AGTATTTNTA TTGTATGGTA ATATAGTTAT TGCACAAGTT CANTAAAANT 300
CTGCTCNTG TATAGCANGG NNNGGGTTGG GGGGGCGGGN GGNGGGGGG N 351

SEQ ID NO:3461

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04071

SEQUENCE DESCRIPTION:

GATCAGATAG TTTCTGAGG CTAAAATGCC CCAACATGTA AAAGACTGCN ACAAGGGTTA 60

ATGAGCCAGG AACTGCCGAT GGTAACCTAC ATCTCTATAA TTACCATAGG ATATATATGA 120
 GTACCATAGG ATTCTTTTGC ATAACTGTAG AAAGTACAGA CAACACCCTC CCGTGTTC 180
 TATTAGAGTT TTTANTGTTG ATTGGAAAAT GGGAGATTCA CTGTGTGCCA TTCTGGGTAT 240
 ACGTTGANGA AATTACATCA CTAGTACACA CNGNGGNNNT TCCACATTCA CACGCCCCAG 300
 CTCTN 305

SEQ ID NO:3462

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04072

SEQUENCE DESCRIPTION:

GATCAAGCTA CAGATATGGG ATACAGCAGG CCAGGAGCGA TTTCACACCA TCACAACCTC 60
 CTACTACAGA GCGCAATGG GTATCATGCT AGTATATGAC ATCACCAATG GTAAAAGTTT 120
 TGAAAACATC AGCAAATGGC TTAGAAACAT AGATGAGCAT GCCAATGAAG ATGTGGAAAG 180
 AATGTTACTA GGAACAAGT GTGATATGGA CGACAANNGT GTGTACCTA AAGGAAAAGG 240
 TGANCAGATT GCNNGGGAGC ATGGTATTAG GTTTTTTGAG ACTAGTGCAA ANGCNGGTAT 300
 AAN 303

SEQ ID NO:3463

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04073

SEQUENCE DESCRIPTION:

GATCCGGTCA TACATCCACA TCAGGCCTGG CCAGCTGGAT GTTCTTAAAN AGTTCACAA 60
 GCAGATTACT GCACGGGCAA CAAAGGATGG GACTTTTGTC ATTTCAAAGA CATGATGTAT 120
 GGGGATTAGA AAGAACTCAA GACACTCCTG CTTGATACAG AACAAAAAGA GCTTAACAGG 180
 ACCAACAGGG CTTAAGCCCA GACTTGACGT AACAGAAATG TGCCAATAGG TAATAGGTAA 240
 TTTNCTTTC TCTGACTTGT TTTGTTTCT TGAAATAACA CTGTTGTGTG GCTAGAAAGG 300
 AAA 303

SEQ ID NO:3464

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04074

SEQUENCE DESCRIPTION:

GATCTACTTT CACATTCTCA AGTTTTNTC ATCTGCATTA GAGGTGCCCA GTAGGTTCCC 60
 AGGTTCCAGC GTGCCCTCC CTCAGACACA CGGACACAAT CAGCCGAGAA GTTCCTGGTC 120
 TGAATCACGA GAATGTGGAG GGGTGGGGG TGTCAGTGA AAGGCATAAG GCTGAGCTGA 180
 GACCAGTTGC TGGTGAAGT GGGCCAATCT GGGGAGGGGA ACATCCTTGC CAGGGAGTTT 240
 CTGAGGGTCT GCTTTGTTA CCTTTCGTGC GGTGGATTCT TTTAACTCC GTCTACCTGG 300
 CGTTTTGTGA GAAATGTCAG ATAGGAAAAT AAAAACCATT TGAGTAAA 348

SEQ ID NO:3465

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04075

SEQUENCE DESCRIPTION:

GATCTGACCT GGTGAGATTA TTTCTNATGA CCTCATCAAA AAATAAACAN TTCCAATGT 60
TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCCTAGC AACTCCACCA 120
TTGGGCACTG CCATGCAGAG ACGTGGCTTG GCCCAGAATG GCCTGTGCCA TAGCAACTGG 180
AGGGCATGGG GCAATGACAG ATACANCAGA ACANTGCTTT TGAGGCANGC TTCTCCCTN 240
GNGGGTNGGT TGTNATGGCC NTGGCTTTTT NAGTTGGGNG NCATTANAT TAAGGTTN 299

SEQ ID NO:3466

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04076

SEQUENCE DESCRIPTION:

GATCTACGTN ATCTCAGGGC AGTTCCTACA GATGAAGCAA GAGCTTTTNC AGAAAAGAAT 60
GGTTTGTNAT TCATTGAAAC TTCGGCCCTA GACTCTACAA ATGTAGAAGC TGCTTTNAG 120
ACAATTTTAA CAGAGATTTA CCGCATTGTT TCTCAGAAGC AAATGTCAGA CAGACGCGAA 180
AATGACATGT CTCCAAGCAA CAATGTGGTT CCTATTCTATG TTCCACCAAC CACTGAAAAC 240
ANGCCAAAGG TGCAGTGCTG TCAGAACATC TAAGGCATTT NTNTTCTCCC CTAGAAGGCT 300
GTGTATAGTC CATTTCCCAG GTNTGNGGAT TTAAATATAT TNGTAATNCT NGGTGTCACT 360
TTTGGTGTTC TATNACTTCA TACTTATGNN TTTTCCATG NCCTAAGNCT TTTN 415

SEQ ID NO:3467

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04077

SEQUENCE DESCRIPTION:

GATCCACCTT CTTCTTAGG TCCCCTCCTC CATCAGCAAA GGAGCACTTC TCTAATCATG 60
CCCTCCCGAA GACTGGCTGG GAGAAGGTTT AAAAACAAAA AATCCAGGAG TAAGAGCCTT 120
AGGTCAGTTT GAAATTGGAG ACAAACTGTC TGGCAAAGGG TCGGAGAGGG AGCTTGTGCT 180
CAGGAGTCCA GCCGTCCAGC CTCGGGGTGT AGGTTTCTGA GGTGTGCCAT TGGGGCCTCA 240
GNCCTCTCTG GTGACAGAGG CTCAGCTGTG GCCACCAACA CACAACCACA CACAN 295

SEQ ID NO:3468

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04078

SEQUENCE DESCRIPTION:

GATCAAAGCA CTGGGCTTGT CCAGGCNCAT AATAAATGCT CCATTGAANG TACTATTCTN 60

GTTTTCCACT GCTGTGGAAG CCTCCTTGCT ACTATAGCGT CTTATGTATG GTTTAAAGGA 120
 AATTTATCAG GTGAGAGAGA TGAGCAACGT TGTCTTTNCT CTCAAAGCTG TAATGTGGGT 180
 TTNGTTTTAC TGTTTATTTG TTTGTNGTTG TATCCTTTTC TCCTNGTNAN TTGCCCTTCA 240
 GAATGCACTT GGGAAAGGCT GGTTCCTTAG NNNCCTGGTT TGTGTCTNTT NN 292

SEQ ID NO:3469

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04079

SEQUENCE DESCRIPTION:

GATCTCTTAA GAGATGATGG ACTTATGTAT GTTACAAGAC TTCGAAATGT TGGAGTCCAA 60
 GTNGTTCATG AACATATTGA GGATGGAATT CATGGAGCTT TATCATTCAT GACTTCACCA 120
 TTTTATTTAC GTCTAGGTCT TAGGATAAGA GATATGTATG TAAGTNGGCT GGATAAGANT 180
 TTATAAATAT GTGATGTGTA TGTATAGCCC TTACATAGTG GATTGTAATT NGTGATATTT 240
 TGTGGTTTTG GAGCAAAGAN CAATGTCATT TGAGTTATCT AAATCTACAT N 291

SEQ ID NO:3470

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04080

SEQUENCE DESCRIPTION:

GATCTTTTGA TTCCTCTTGG GCTGAAGCAG ACCAAGTTCC CCCAGGCAC CCCAGTTGTG 60
 GGGGAGCCTG TATTTTTTTT AACAACATCC CCATTCCTCA CCTGGTCCTC CCNCTTCCCA 120
 TGCTGCCAAC TTCTAACCGC AATAGTGAAT CTGTGCTTGT NTGTTTAGTT CTGTGTATAA 180
 ATGGAATGTT GTGGAGATGA CCCCTCCCTG TGCCGGCTGG TTCCTCTCCC TTTTCCCTG 240
 GTCACGGCTA CTCATGGAAG CAGGACCAGT AAAGGGACCT TCGATTAAAA 290

SEQ ID NO:3471

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04081

SEQUENCE DESCRIPTION:

GATCCAAAGT CCTGTGGTTA ACGCCTTCAT TTATAGATGA GGCAGCTGAG GCCTGGGGAT 60
 GTGAACAACC TGCTCACAGT CCTCATTTAC TGGATTTGAC TTCAGCCAGG TGAAGTGGAA 120
 TGCCTTGGGG CGTGAAGGG CATTAGGAGT GTTTCATTTG ATATGTGAAT GCTCATAAAA 180
 AAATGTCAAG GAATGAAGAA CAGCANCTCT CAGTGGTGCC TGCATTTATA ATTATTTATG 240
 TGAAAGTCAA ATTCATGTAC AGTAAATTTG TTATAAGAAT ATTCAAA 287

SEQ ID NO:3472

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04082

SEQUENCE DESCRIPTION:

GATCCAAAGT GCAAGGNTTT GATTATAAAC ATAATTCCT AGACTGAAAG TTTTGGAAA 60
 AGATGCAGGG TCTGAGTCAG GCCTTCTGGT TATATTGTGC AGTTTCAAAA GAACTATTTA 120
 ANACTCTTGA AAACATCATGT AAATAAAAAT CATAGGGTGA AAATTGTATT TGTTAAAATA 180
 CCTTAATAAT TTAAGATGAC CTGATTCCT GGAAAATTT ATTATTCAA AGGTGGAGGC 240
 ATTGTAAAAA GGAAATAGTG ATGTAAATAA ACATGTTCTC TTTCAA 287

SEQ ID NO:3473

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04083

SEQUENCE DESCRIPTION:

GATCTGTTTG TCACTGACAG ACTGTAGTAG TGTCTGTGTG CTGACTGATA GATAGACTAT 60
 AGTAAATTT GGGTGTGCC TGAACCGG TCTAGGGTCT GTAAGCTGAC AGTCTGCCTG 120
 CTTTCTGATT GTATCCATTG AAGTGTATGT ACATTATGGT AATNCTCTGT CTATTAAATG 180
 TGTCTAACAA AGGAAGGAAT TAAGCACTCC ACATGTTTC TTTATAGGGG AGTTCTGTAC 240
 ACTATGATTT TAAATAGATA TTTCTTATAT AANGGAAA 278

SEQ ID NO:3474

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04084

SEQUENCE DESCRIPTION:

GATCCCAACA CTGAAGGGGT AGAAGGCCAG GGGGGCATGG AGAGTGCAGC TCCATTATAG 60
 TGAAGAGCCA AACATATGTN AACTGTTTGC TGTGTGGAGG TGTTAGTTCT GCTGCCTACC 120
 ATCTTCATCT CTAGCACCTC CCCTGCCAAG AGTCAACCAC TAAGCAATCC CACCCAAGCC 180
 TGGATGCTTC TAGAGGGGCC CACTCCCAGC TGGGAGAGTN TAGGGGATAT GCTCACACCA 240
 CATTAGCAGC AACCAATAAA AATGCTGGAA ACAAGAAA 278

SEQ ID NO:3475

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04086

SEQUENCE DESCRIPTION:

GATCTTAAC TGTTCATTTG AAACCCTGTG CGTTTGAAGT GGTGGAGACA GGACCTTTAT 60
 CATATTCTGA GCTTTAAATA TATAAACNGG TAAATCATTC CATTTAATAA GACATAGCCC 120
 AAGTCCCAGA ACGCGTTTTG AGAGTAACCA GAAACAGAGG TTATTTGTTC TGCTTTCTTT 180
 TATCACTGCT ATTTGGATGG ATATCCCAA CAAGTGGATG TGCGCCCAA TTCTATTTTC 240
 CACTATTCAA TGATTAAAT AATTACAAAA ACGCAA 277

SEQ ID NO:3476

2153480

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04087

SEQUENCE DESCRIPTION:

GATCTTTCCA AATACCCAAA TGTCCCTGCA AGCCCGTTAA ATAATTCCT ATGCTACCCT 60
TAATAACATA CAATGACCAC ATAGTGTGAG AACTTCCAAC AAGCCTCAAA GTCCCTTGAG 120
ACTCCCAAT ACCTAATAAG GCATGCGAAA TGTTCATG AACTACCCA CAACACGCCT 180
AAACTCAAA ACACCCAAA ATATNTCTC CAATGTCCTG AAACATGAAC CCAAAAAGAG 240
ACCCACAATA AACTCGTGAC TTGTCCNCTC AAA 273

SEQ ID NO:3477

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04088

SEQUENCE DESCRIPTION:

GATCCTCTCN ACCCTCCTCT AGCCATCCCT TGGGGAAGGG TGGGAGAAN TATAGGATAG 60
ACACTGGACA TGGCCATTG GAGCACNNGG GCCCCACTGG ACAACTGA TTCCTGGAGA 120
GGTGGCTGCN CCCCAGCTT CTNTCTCCT GTNACACACT GGACCCACT GGCTGAGAAT 180
CTGGGGTGA GNGGACAAG AAGGAGAGGA AAATNTTCC TTGTGCCTGC TCCTGTACTN 240
GTCTCAGCT TGGGGNTTCT TCCTCCTCCA TN 272

SEQ ID NO:3478

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04089

SEQUENCE DESCRIPTION:

GATCTTGATA TTNGCCTCT TTGAAGAGAC AGCCCTGGCT GCTTCTNN CCTACTGCC 60
TGGAATGGGT GTTNTCTTA GGATGTATCC CCTCAACCT ACCTGGTGT TCTTGCCTT 120
CCCCTACTCT CTTCTCATCT TCGTATATNA CGAAGCAGAA AACTCATCAT CAGGCGACGC 180
CCTGGCGGCT GGTGGAGAG GGAAACCTAC TATNAGCCCC CCGTCCTGCA CGCCGTGGAG 240
CATCAGGCCA CACTCTGC ATCCGACACN 270

SEQ ID NO:3479

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04090

SEQUENCE DESCRIPTION:

GATCACCAAC AGGAAAGAC ATCCTGTTT TTTTGATGTG GTGCATGTGA AGGATGCCAA 60
TGGAACAGC TTGCCACGA GGCTTTCAA CTTTTTGTG ATTGGCAATG GCAATAAACC 120
TTGGAATTCC CTGCCAGGG GAAAGGGCAT TCGACTTACT GTTGCTGAAG AGAGAGATAA 180
GAGGCTGGCC ACCAAACAGA GCAGTGGCTA AATTGCAGTA GCAGCATATC TTTTTTCTT 240

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TGCACAANTA AACAGTGAAT TCTCAA

267

SEQ ID NO:3480

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04091

SEQUENCE DESCRIPTION:

GATCCCTGGA GTGCCTTGGT GTTCAAGCC CCTGCAGGAA GCAGAATGCA NCTTNTGAGG 60
CACCTCCAGC TGCCCCCGGC CGGGGGATGC GAGGCTCGGA GCACCCTTGC CCGGCTGTGA 120
TTGCTGCCAG GCACTGTTCA TCTCAGCTTT TCTGTCCCTT TGCTCCCGGC AAGCGCTTCT 180
GCTGAAAGTT CATATCTGGA GCCTGATGTC TTAACGAATA AAGGTCCCAT GCTCCACCCG 240
AGGACAGTTC TTCGTGCCTG AAA 263

SEQ ID NO:3481

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04092

SEQUENCE DESCRIPTION:

GATCGGGAAC AAATGNAATC TGTGGATGCA TCAAGCTATC GTCAGTCAAA CCCCTTTAAA 60
ATGTTGCTTT GGCTTTGTAA ATTTAAATAT GTAAGTGCTA TATAAGTCAG GAGCAGCTGT 120
CTTTTAAAA TGTCTCGGCT AGCTAGACCA CAGATATCTT CTAGACATAT TGAACACATT 180
TAAGATTTGA GGGATATAAG GGAAATNAT ATGAATGTGT ATTTTACTC AAAATAAAAG 240
TAACTGTTTA CGTTAAA 257

SEQ ID NO:3482

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04093

SEQUENCE DESCRIPTION:

GATCTACATT TTGTACATAT TTATATAAAA TTTACCTTTA AGTATTTACT TTAAAAAATT 60
TAATGGCTTA ACTCGAATT GAAGACACAT ACTTCAACTG TCCTTATTGT CCATTAACT 120
GATAATTTN ATTTTCCTNG CTTTATAGA TTTNNCTATA TAGGAATCAA GATTANGAA 180
ATTTTGCAAT AAAANTAGTG TACCAATGCT TCATATACGT TAGTTATTG CTATTATGTA 240
GGGAAGAGGA TTGTN 255

SEQ ID NO:3483

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04094

SEQUENCE DESCRIPTION:

GATCTGAAAT NAGAAATATC CAACATTGCA CGAGTATCTT TTTTTATNCC TCCACAGACT 60

CCGCCAGAGA CACCTAGTCC TGATGAAACG TCTGCTCCTT GTCCTAATAT TCATATCAAC 120
 AGCACCATTC CTGGCATTCA CATTTTAAAA ATTATGTGGA AGTGGATAGG AGAACTGCAG 180
 CTGTCAATAG CCTAGGGCTG AATTTTGTGC AGNTAANTAA NATAAATCAT TCATCCTTTT 240
 TTTTNGNTTT ATAAA 255

SEQ ID NO:3484

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04095

SEQUENCE DESCRIPTION:

GATCTAGGTG GTTTGTAATT GTGCATTACT GACTGCATAT GTTTGTGTAT GTGTAAATGT 60
 GGGCTCCCTG TTAAGTGGGG CTCATGGATA CGAGGCCTGA GGAAGTGTGG CTTGCTAGTC 120
 TGTTACGTTA ACATGCTTTT CTAATTTGC TTCACGTGTT AATTCATTTA CTCCTGCATT 180
 CATTGACTGT TTTTGTCTT TTCCATTAC TTTGTACTTA TTTTTCAT TAAATTTTGC 240
 ATTTATTTG AAA 253

SEQ ID NO:3485

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04096

SEQUENCE DESCRIPTION:

GATCCTAGTT CCTTCCTTCC CGAGTGATAC CCATGAACTG CCAGTAGAGG CTGCTATCGT 60
 TCCATGTGTA AGGAATGAAC TGGTTCAAGG CGCGTCCTAC CCAGTCATT TCTTTACCTT 120
 ATACTAATTC TTCCTGAATA ATGTCTTCAG TTTCTTGAGG AGACTCCTAG TTTTGGTTTT 180
 CAAATTAATT GGAGGGCTGC CTAGGAATCT ATCTCCCTCT GAAATAAAGT TTCCTCATCT 240
 TCCACNNTAA A 251

SEQ ID NO:3486

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04097

SEQUENCE DESCRIPTION:

GATCATACGG CCTTCCAGGA GACGCTGGGA TGTAAGATAC TCTTGGAGGN TGGCTCTGAA 60
 CTCGGGTGTC TGAATCACAG GGCAAGGGTA GGCGTGGGCT GTGGCTAACA GCAGAGTCAC 120
 TTCCCTGGCC TAGCTTGGGG ACCTGGGGAG GAGGAGGTAG CTCTGGACAC CAGGGTTCTT 180
 CCCATTGTGG GAGAGTNAGT TTTTATGGGG GAGACCTGTC CCCCAGATTA AAGAACTGGG 240
 AGCCCTAAA 249

SEQ ID NO:3487

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04098

SEQUENCE DESCRIPTION:

GATCAAAGAA GAGAGTAAAG CTATGTCTTC AATTAAATTT CAATACCTGA TTTGTACTTT 60
 CCTTGAAAGC TTTACTTTAA AATACCTTAC TTATAGGCCT GGTGTCATGC TATAAGTATG 120
 TACATACAGT TTCACTTCAA AAATAAAAAA AAANTCCCTA AAANCTCTCT ATACTCTCTA 180
 TAACANTNCT TTATCANGAN CTCTGGNCAA TGGTATTATT TNGGANANTC ATGGTGATGT 240
 ATTTNTNN 248

SEQ ID NO:3488

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04099

SEQUENCE DESCRIPTION:

GATCTGTGTT GTAGAACATG AGGGTGTAAAG CCTTCAGCCT GGCAAGTTAC ATGTAGAAAG 60
 CCCACACTTG TGAAGGTTTT GTTTTACAAA TCACTTGATT TAACACACTC AGGTAGAATA 120
 TTTTAATTTT TACTGTTTTA TACCCAGAAG TTATTCTAC ATTGTNCTAC AGCAAGAATA 180
 TTCATAAAAG TATCCCTTTC AAATGCCTTT GAGAAGANTA GANGAAAAAA AGTTTGTATA 240
 TATTN 245

SEQ ID NO:3489

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04100

SEQUENCE DESCRIPTION:

GATCCTGATN ATATTTGGCA GCTGTCCTCC AGTCTTAAAA GGTTTGATGA CAAATACACC 60
 TTGAAGCTGA CCTTCATCAG TGGGAGAACA AAGCAGCAGC GGGGAAGCCGA GTTCACAAAG 120
 TCCATTGCTA AGTTTTTTTG ACCACAGTGG GACACTGGTC ATGGATGCAT ATGNGCCTGA 180
 AATATCCAGG CTCCATGACA GTCTTGCCAT AGAAAGANAA ATAAAGTAGC CACTTCTANA 240
 AGTAAA 246

SEQ ID NO:3490

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04101

SEQUENCE DESCRIPTION:

GATCCTGGGT ACTGAAAGNC TTAGGGAAGC TGGCCTGAGA GGGGAAGCGG CCCTAAGGGA 60
 GTATCTAAGA ACAAAGCGA CCCATTGAGA GACTGTCCCT GAAACCTAGT ACTGCCCCC 120
 ATGAGGAAGG AACAGCAATG GTGTCAGTAT CCAGGCTTTG TACAGAGTGC TTTTCTGTTT 180
 AGTTTTTACT TTTTTTGT TTGTTTTTTA AAGATGAAAT AAAGACCCAG GGGGAGAAA 239

SEQ ID NO:3491

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04102

SEQUENCE DESCRIPTION:

GATCTGGGGA AAGGAGAGAC CATGGTGTGA ATGTAGAGAT GCCACCTANC TCTCTCTAAG 60
GCAGGCCTGT GGATGAAGGA GGAGGGTCAG GGCTGGCCTT CCTCTGTNCA TCANTCTGCT 120
AGGTTGGGGG CCCCNGNCCN NCCATACCTA CGCCTAGGGA GCCCGTCCTC CAGTATTCCG 180
TCTGTAGCAG GAGCTAGGGC TGCTGCCTCA GCTCCAAGAC AAGAATGAAC CTGGCTGTN 239

SEQ ID NO:3492

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04103

SEQUENCE DESCRIPTION:

GATCTGTGTT TCCTCCCCAG TCATCTTTCT TGTTCAGAG AGGTGGGGCT GGATGTCTCC 60
ATCTCTGTCT CAACTTTATG TGCAGTGAGC TGCAACTTCT TACTTCCCTA CTGAAAATAA 120
GAATCTGAAT ATAAATTTGT TTTCTCAAAT ATTTGCTATG AGAGGTTGAT GGATTAATTA 180
AATAAGTCAA TTCCTGGAAT TTGAAAGAGC AAATAAGAC CTGAGAACCT TCCAGAATCT 240
GAAA 244

SEQ ID NO:3493

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04104

SEQUENCE DESCRIPTION:

GATCCATAAA AGATTGTATT TTTATTACTA TTAAACAAG TGATTAAATT TAGTCTGCAC 60
ANNAGCAAG GGTTCACATG CATTCTTTA TACTGCTGGA TTTGTTGTG CATCATTTAA 120
AACATTTTGT ATGTTCTNC TTATCTGTGT ATACAGTATG TTCTTGAATG ATGTTCAATT 180
GTCAGGAGNN CTGTGAGAAA TAACTATGT GGATACTGTC TGTTTATATT ATAAA 235

SEQ ID NO:3494

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04105

SEQUENCE DESCRIPTION:

GATCGACTGT AAATAGAGGA CTTCTGGAAC ATTCAAATA TTCTGGGGTT GAGGGAAATT 60
GCTGCTGTCT ACAAATGCC AAGGGTGGAC AGGCGCTGTG GCTCACGCCT GTAATCCCAG 120
CACTTTGGGA GNCTGAGGTA GGAGGATTGA TTGAGGCCAA GAGTTAAAGA CCAGCCTGGT 180
CAATATAGCA AGACCACGTC TCTAAATAAA AATTANTAGG CCGGCCAGGC AAA 233

SEQ ID NO:3495

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04106

SEQUENCE DESCRIPTION:

GATCATGGAG ACCTGGCTGG TAGCTGTAAC AGAGATGGTG GAGTCCAAGG AAACAGCCTG 60
TCTCTGGTGA ATGGNACTTT CTTTGGTGGA CACTTGGCAC CAGCTCTGAG AGCCCTTCCC 120
CTGTGTCCTG CCACCATGTG GGTCANATGT ACTCTCTGTC ACATGAGGAG AGTGCTAGTT 180
CATGTGTNCT CCATTCTTGT GAGCATCCTA ATNNNTCNNT TCCATTTTNA TGACAGGANG 240
AAA 243

SEQ ID NO:3496

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04107

SEQUENCE DESCRIPTION:

GATCCAGAAC TGAGGTCACT GGGTTCTAGA ACNGNNACAT TTACCTCGAG GCTCTTCCAT 60
CCCCAACTG TGCCCTGCCT TCAGCTTTGG TGAAAGGGAG GGCCCTCAT GTGTGCTGTG 120
CTGTGTCTGC ACCGCTTGGT TTGCAGTTGA GAGGGGAGGG CAGGAGGGGT GTGATTGGAG 180
TGTGTCCGGA GATGAGATGA AAAAAATACA TCTATATTTA AGAATCCCAA A 231

SEQ ID NO:3497

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04108

SEQUENCE DESCRIPTION:

GATCTGCAGC CAGGCCTTTC TGAAGGNGTT ATTCTGNTAA AAATGGTCTN AGTTNTCTGA 60
AAAGCCAGCT CTTGAACCTC TTCACAACAG TATCAACACT GGCTTCTCCC GGTTCATNTT 120
ATGCGTCCGA GAAGTCAGTG GTAACNTCTG CAGGGCTTAA TACATTAGTG GTAACGGTT 180
TAAAAAACAA AGACTGTAAG CCTGTGTGTG CCACTGNNNG CTTCAACNGN N 231

SEQ ID NO:3498

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04109

SEQUENCE DESCRIPTION:

GATCCCAGTT TGCAGCAAAC CCCACACCCC AGCTCACACA GCAAAAACAA TGGACAGGCC 60
CAGAGGGTGA AGCAACAGT GTCCCTTCTG GCTGTNTTGG AGCCTCCCA GTAACCACCT 120
ATTTATTTNA CCTCTTTCCC AAACCTGGAG CATTATGCC TAGGCTTGTN AAGAATCTNT 180
TCAGTCCCTC TCCTTCTCAA TAAAAGCATC TTCAAGCTTG TAAA 224

SEQ ID NO:3499

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04110

SEQUENCE DESCRIPTION:

GATCGGGAAC AAGCACGTTG TACCCCTGGC TGGACATGGC CAAGACACAA GGCATTCCAC 60
 GCGGCAAGC TGACCGCACA GCAGTCTGGC TTGATTTTCA GCCGTCATCA TTGGGTTCTG 120
 TTTTGACAGC TCTGCTGCCC ATAGGGACTG CGACTGGGNC CAGGTCAACC ACGCCAGGGG 180
 GGTGTCACCA GCCTTTTCTT TTTTNCCTTC TTTTNTTTT TTCCCCCCTA AAGTTGTNNN 240
 AAAGCNAANC CNTGGGAATA ATGGTTTNTT TGGANTNAAA CCCANNATTT CAGN 294

SEQ ID NO:3500

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04111

SEQUENCE DESCRIPTION:

GATCCAAGTT TGATAACATT GGCATGAATG CCATGGCTAA CAAAGATAAT GCAAGTNTCA 60
 AACAGCTTAG ATGGGAGGCT GAACGTGATG ACTGGCTACA CAACAGAGAT GCAAAANGTA 120
 TCATCAGGAA AAGGAAACAT TTAAAANGA AGAGGNTTAA AACCCTCAA AAANCTAAAA 180
 NCCAAGGGAA ATGAGTTATT ANTGTAANTN ATAGNTTAAN N 221

SEQ ID NO:3501

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04112

SEQUENCE DESCRIPTION:

GATCTAATTG TATTAGTATT GTGAATAATC ATGTGAAATG TTTTGAGACA GAGTACTATA 60
 TTTGTGAATA TAATNNTATG GTTTTTTCA CTTAGAACCT TTCTGTGTGG AAAACTAAGA 120
 AAATTGCTTT CTGCTGTATA ATCTGGCATT CATTGTAGAT TAAAGCTTAT TTTNCTGTGA 180
 ATAAACGNN NNCAATAAAA TACTATTCTT TAAAATTAAA 220

SEQ ID NO:3502

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04113

SEQUENCE DESCRIPTION:

GATCTGGACA CCCTGTCTCC TGAGGAGCGC CGGGCCAGGC TGCGGAAGTN TGAGGCTCAG 60
 CTCCAGTCGA GGAAGGAGTA CGAGCAGGAG CTCAGTGATG ACTTGCATGT GGAGCGCTAC 120
 CGACAGTTCT GGACCAGGAC CAAGAAGTGA CCGTGGCTCC AGCCACCCCG GGACATTGCT 180
 AAGATGGGAG GGCTGTTCTT AAATNACTCG TTCTGAAGC TGCAAA 226

SEQ ID NO:3503

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04114

SEQUENCE DESCRIPTION:

GATCATGCCG AAAAAGTGGC GGAAAAGCTA GAAGCTCTCT CGGTGAAGAN GANNCCAAGG 60
AGGATGCTGA GGAGAAGCAA TAAATCGTCT TATTTNATTT NCTTTCCTC TCTTCCTTT 120
CCTTTTTTNA AAAAATTTTA CCTTGCCCTT CTTTTTCGGT TTGTTTTTAT TCTTTCATTT 180
TTACAAGGGA CGTTATATAA AGAACTGAAC TCAAA 215

SEQ ID NO:3504

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04115

SEQUENCE DESCRIPTION:

GATCTNTTCT TAATGTACAT AGTGCTAACA TGAAGACCTT TTTNTGCACT ATATGCAAAC 60
AGGGTAACTA ACTAAACAA AGCCACTTTC AATCTTCAAT CCTTGAAGGT ATATCTAGGT 120
TTATNACAGT AATTGNTTTT ACATTNATG GTGCCTAGTA TTGACAAAAT GTTATTTCCC 180
TACATTAAAC ATGACTCCAT AGACCTTTTC AAA 213

SEQ ID NO:3505

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04116

SEQUENCE DESCRIPTION:

GATCTAATGT AAAATCCAGA ACTTGGACTC CATCGTTAAA ATTATTTATG TGTAACATTC 60
AAATGTGTGC ATTAAATATG CTTCCACAGT AAAATCTGAA AACTGATTG GTGATTGAAA 120
GCTGCCCTTC TATTTACTTG AGTCTTGAC ATACATACTT TTTATGAGC TATGAAATAA 180
AACATTNAA NCTGAATTNN TTAACNTGTA AA 212

SEQ ID NO:3506

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04117

SEQUENCE DESCRIPTION:

GATCAGAGAT GCTGTTTCATC AGTCCCAACA AGATGGCCTA GAAATCGCAT TCTCACCTCG 60
CCTTGCTGCT GCTTAAATTC CAAGTTCTAT TTCTTCCCTT ATAGTTTCT ATGGGAATGA 120
GGCGGATACA GGAACACCC TATCTCTCT GTATTTTGT AGTGGAATTT CTATTTAAGG 180
GGCTCATTAA AGCATAGTAT TTATACACAA A 211

SEQ ID NO:3507

LENGTH:209

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS04118

SEQUENCE DESCRIPTION:

GATCGAGATN CAAAGCCACA TNCTCTCTCA CCAAGNTAAA CTATTANAT TAATTGTTAG 60
CGGTGTTATG CTGCTTTCTT CTTTGACAAG GCCATGACTA AGAAGGCTCT AAGTAAAGGA 120
AGAATCATTT ATTCCATAGT CAGCTAACTG GTAGCAAAGC CTTCTNTTCC AAGACACCAA 180
GGGAGAGGGG AGGACATAAA TTATGCAAA 209

SEQ ID NO:3508

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04119

SEQUENCE DESCRIPTION:

GATCCCTCT TNAGTCNCCT GCCCCTTCCA AGGACACTAA TGAGCCTGGG AGGGTGGCAG 60
GGAGGAGGGG ACAGCTTCAC CTTTGGAGT CCTGGGGTTT TTCCTCTTNC GCCCCTTGTG 120
GTTTCTGTTT TGTAATTTAA GAAGAGCTAT TCATCACTGT AATTATTATT ATTTCTACA 180
ATAAATGGGA CCTGTGCACA GGAGGAAA 208

SEQ ID NO:3509

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04120

SEQUENCE DESCRIPTION:

GATCCAAGCA TATAAAAAGC CTNTATATTT TTNAAAAACA CATCTTAACT CCACGCTTTA 60
CGATATTATA AAGTTGAAT GGTTCCTCTT GGTAAGGATA TTTGCTTACA AGTGCTAGGA 120
AATAACTNNC TGATAGCTGC GTTAACATAC TTNGTTTTGC CTAGAGAGGG GCAATAAAAA 180
TGAACCAAAG GATATTTCCA GAAAGGATTA AGAAAGCTGT TTAAGANGGC CATGACTCTT 240
TAGGTGTGTA TGTGTACCTT TCAGCATCCT AGGAATTTN ATACTAAAAG CAAAATGTTT 300
TTCCCAAGTA GTCTTCTTCA GN 322

SEQ ID NO:3510

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04121

SEQUENCE DESCRIPTION:

GATCCGNCCA CCTNGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGTGCCCGG 60
CCTCTTTTAA TTTATNCCTA AAATATTACC TTGAGGCCAA ATNCTGCGCT TAAGGAGAAT 120
GTGCACCAAG TGCTGGGGTG GGGGCTGGTT ATAAACGAGG CCACAAATNA TGCTTGTA 180
TAAATTGTGT GGTTCAAATC TGA 205

SEQ ID NO:3511

LENGTH:205

01165

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04122

SEQUENCE DESCRIPTION:

GATCCCTCAC TTTATTTATA TTCCCACTAT AACCAGTAAG TTCATTTTCAT AGGCCCTATC 60
ATGCATTAAT CATTGNATGN NAGNAGTTAA TGAAAACTTT TCCTGTTACA ACGCCCATTG 120
CCGGCAATGA ACGTACCAAA ACCGCCAAGG AAGTCATTGT TATTGCACAA TACATGAGGA 180
CCTGGAGCTT TTCCAAAAGC TTAAA 205

SEQ ID NO:3512

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04123

SEQUENCE DESCRIPTION:

GATCTAAAC GGCTATTTAA TATGTTACAA GGCACCTGAG TATGGTTGCA TGTCCAAATA 60
TAAATGTTTT TAAATTAAC TTAACATTTG GTTATAAAAG TTTANCCATA ATAATAGAAT 120
TTTTAAACA CGNTTGNTG GTTTAATCTT AGCATATTTT TCCAATAAT AAAGCTCAGT 180
ATTCGTCTGN GTTCTCAGNG GAAA 204

SEQ ID NO:3513

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04125

SEQUENCE DESCRIPTION:

GATCTCTCTC ATTCATTTCA ATGTATTTTT ACTTTAAGAT GAACCAAAAT TATTAGACTT 60
ATTTAAGATG TACAGGCATC AGAAAAAGA AGCACATAAT GCTTTTGGTG CGATGGCACT 120
CACTGTGAAC ATGTGTACCC ACATATTANT ATGCAATATT GTTCCAATC CTTNCTAATA 180
CAGTTTTTTA TAATGTTGAA A 201

SEQ ID NO:3514

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04126

SEQUENCE DESCRIPTION:

GATCCAATTT ACATCCACAT TTTAGGTNCA ACAGCAAGAA GTTCAGAGAG AGATTTCCEA 60
ACCAGACATT GGGTCACTCA CTGGTCACCT TGCCAGTNCA TTTTATTAGA AGGGAATCTG 120
TTGTAGCAAA TGGGAATAAA CCTGGGTTTC TATAGACCCA GAACTGAAAA AATAAACATC 180
GTGCTGTTTT TAATTNGAAA 200

SEQ ID NO:3515

LENGTH:209

TYPE:nucleic acid

01166

TOPOLOGY:linear

CLONE:HUMGS04127

SEQUENCE DESCRIPTION:

GATCTTAGTT TTCTTTTGT TATTTCCCAG CTCATTTTT TCTTCTGGTC AGTTTTTTTA 60
 AGGGGGGGTG TTGTGGTTTT TTGTTTTGT TTTGCTTCTG AGAAAGCATT TGCCTTTCTT 120
 CCTCTCCCAA CATAACAATC GTGGTAACAG AATGCGACTG CTNGATTAC CGATGTATTT 180
 AATGTAAGTA AAAAAAGGAA AAAAAAGAA 209

SEQ ID NO:3516

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04128

SEQUENCE DESCRIPTION:

GATCCATTCC CTGCAACTNA AGATTCTAAG GAACTGGGTT TCTCAGTATA CAATGGGAAT 60
 GGTGAGNAGG AGGTAAAGAG TAGAAGACAG TATCAAGANT CCAGAGCCCA GCACCTGTAG 120
 TCCTAACTAT NCANATTCTT TGAGCCCAGG AGTTTGAGTC CAGCCTGGAC AACATATTGA 180
 GACCCCATC TCTCTAAA 198

SEQ ID NO:3517

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04129

SEQUENCE DESCRIPTION:

GATCATGAAT AGGAGCCCAT GCTAGAAGTA CATTCTCTCA GATTGAACC AGTGAAATAT 60
 GATGTATTC TGAGCTAAAA CTCACTATA GAAGACATTA AAAGAAATCG TATTCTTGCC 120
 AAGTAACCAC CACTTCTGCC TTAGATAATA TGATTATAAG GNAATCAAAT AAATGTTGCC 180
 TTAACCTCAA A 191

SEQ ID NO:3518

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04130

SEQUENCE DESCRIPTION:

GATCCAGGCA GCCAAGAAGT TGATGAATGC TGTGGTGACAG ACAGTGAAGN CATCCTACGT 60
 CGCCTCTACC AAATACCAAA AGTCACAGGG TATGGNTTCC CTCAACCTTC CTGCTGTGTC 120
 ATGGAAGATG AAGGCACCAG NGNNAAGCC ATTGGTGAAG AGAGAGAAAC AGGATGAGAC 180
 ACAGACCAAG N 191

SEQ ID NO:3519

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04131

SEQUENCE DESCRIPTION:

GATCTCCCC AAAGATTCCA GCGGGTGCAA CCCTGCNTGT TCGAGGTGGA GCTGCTCAA 60
 ATAGAGCGAC GAACTGAGCT GTAACCAGAC TGGGGAGGGG CAGGGGGAGA GGCCCCATC 120
 AGGGACCAGA CTGTTCCAGA AAAAAACAA AAAACANAAA CAAACAAAA AACACTTAA 180
 AGCCAAA 187

SEQ ID NO:3520

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04132

SEQUENCE DESCRIPTION:

GATCGAGACT CTNCCAGAAA ACAAACAAA ACAAAAAAA ATCCGTTTCT AAGGACGGCG 60
 GGGATTCCGT TCGAGCCCGT GGCTGCTCTG TTTTGTTTG CTTCTTGGT ATATAATCCT 120
 ANAAATAAAA GGGTAATATA AATATTTNAG AAGAGGGAAA TTGCTGAAGA GTAGTAAGGG 180
 CAAA 184

SEQ ID NO:3521

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04133

SEQUENCE DESCRIPTION:

GATCAGATGA CCATTGAGGA CTTGAATGAA GCTTTCCAG AAACCAAATT AGACAAGAAA 60
 AAGTATCCCT ATTGGCCTCA CCAACCAATT GAGAATTTAT AAAATTGAGT CCAGGAGGAA 120
 GCTCTGGCCC TTGTATTACA CATTCTGGAC ATTAAAAATA ATAATTATAC AGTTAAA 177

SEQ ID NO:3522

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04134

SEQUENCE DESCRIPTION:

GATCCCATCC GAAGCTCAGG GTATGGAGAG CGGGGAGCTC CNCCAAAGAT TCCAGGCGGT 60
 GCANCCTGGT GTTCGAGGTG GAGCTGCTCA AAATAGAGCG ACGAACTGAG CTGTAACCAG 120
 ACTGGGGAGG GGCAGGGGGA GAGGCCCCCA TCAGGGACCA GACTGTTCCA AAAAAAANC 180
 AAAAAACAAA ANCAAACAAA AAAACACTTA AAAGCCCAAA 220

SEQ ID NO:3523

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04135

SEQUENCE DESCRIPTION:

GATCCTACCT AAGGGGCACA ACTAGTAAGG GAGTAGAGCT GAGATTGGCT CCAGAGTTCT 60
TGTTTTTCAGC CACCATTTTA TGCTGCCTCT CCAGTNATTT TTTTCCCAT TTTCTTCAGT 120
NTTCTATAG CAGAGATTG ATAATAAAAA GAAATCCTA AACAATGAGA AA 172

SEQ ID NO:3524

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04136

SEQUENCE DESCRIPTION:

GATCGCACTG CGCAGGGGTG CCACGGAGCT CACCCACGAG GACTACATGG AAGGCATCCT 60
GGAGGTGCAG GCCAAGAAGA AAGCCAACCT ACAATACTAC GCCTAGGGCA CACAGGCCAG 120
CCCCAGTNTC ACGGTGAAG TGCACAATAA AAGATGGTTT AGGGTCAAA 169

SEQ ID NO:3525

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04137

SEQUENCE DESCRIPTION:

GATCTCAGGC ATCGGATTAT TTCTCCTGTA AATATTTTCAG AATGTATCTN TCCAAGATGA 60
GAGCTCATTA AAAGACAATT ACAAAGCTTA TCACATCCAA AAGANTTATC AATAATTTN 120
AAATATTATT AANCGTGTA TAAATNTNCA AAGTNCCACT TGCCTTAAA 169

SEQ ID NO:3526

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04139

SEQUENCE DESCRIPTION:

GATCAAAANG AGTNAANCTA TCCAAAAAAA ATTTGTATAT TTGGGAAAAA TGGATTTTAA 60
CATAGCTTTT GTATGCAGAT ATAAAACTGT AATTATGAAT ATAGTGGGCG TAGATAAACT 120
CATAAGCTTA AATTCTAAAA ANGAAAAAGC TTATACCANG ATAAA 165

SEQ ID NO:3527

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04140

SEQUENCE DESCRIPTION:

GATCAGCCGA TGACAGAGAT TGTAAGCCGT GTGTCGAAGC GAAAGTTGGA GCCGCCACGT 60
GCGGGCNCCTG GTGCTTNANC TGTGCTGTAA CGACGAGAGC GGCGAGGATG TCGAGNTTCC 120
CTATGTCCGA NACACCATCC GCTGACCCCG INTGNTCCTN TAGGN 165

SEQ ID NO:3528

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04141

SEQUENCE DESCRIPTION:

GATCCATTG AAAGTNATTT TGACATAAGG AGTAAGGTTA CTACTGATTC CTACTCAGGA 60
GGCTAAANTG GGAGGACCAC TTAAGTATGG NAGGTCGAGG CTATAGTGAG CCATTACTGA 120
GCCACTGCAC TACAATCTGG GCGACANAGC AAGACTCTGT CTAAG 165

SEQ ID NO:3529

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04142

SEQUENCE DESCRIPTION:

GATCCTGTGT TTGCAACTGG GGAGACAGAA ACTGTGGTTG ATAGCCAGTC ACTGCCTTAA 60
GAACATTGA TGCAAGATGG CCAGCACTGA ACTTTTGAGA TATGACGGTG TACTTACTGC 120
CTGTAGCAA AATAAAGATG TGCCCTTATT TTACCTACAA A 161

SEQ ID NO:3530

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04143

SEQUENCE DESCRIPTION:

GATCAGTCAT CCACCAGGAA CGAAGATTTC CTGAAGAAGA CCTGGTCCCT CTGGAGGTTG 60
CGGTGGCTGA AGGATGCATC ATGTGCTCCT ACCCTGCTCT ACCGCTTTNT TGGGTCACAG 120
AGGCCAAATG TGAGAGCATT GAATAAATAT CTTAAGCTAA A 161

SEQ ID NO:3531

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04144

SEQUENCE DESCRIPTION:

GATCTCGTGA AGCCCGCAAG GACCGAACAC CCCACCCCG ATTAGACCT GCGGGTGCTG 60
CCCCACGTCC CCCACCAAAG CCCATGTAAG GAGCTGAGT CTTAAAGACT GAAGACAGGC 120
TATTCTCTGG AGAAAAATAA AATGGAAATT GTACTTAA 159

SEQ ID NO:3532

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04145

SEQUENCE DESCRIPTION:

GATCCTTACA GTAGAGGTGA CCCCTGTAAT ACCATCTGCT GCCGTGAGGA CCTGAACTCA 60
 CCTAACCCAA GTCCTGGAGG TTNNNNNGAC ACAAAGGTGG CAGATATCTA CCTAGCATCT 120
 CAGTACACAT CCTATGCCAT AAGTGGTCCC ACAGTACAAG GTGGCCTCCC TGTTTTTCGC 180
 TGGGACCGTT TCAACAAAAC TCTACATCAG GGCATGCCAG AGGTCTACAA CTTTGATTTT 240
 ATTACCATGA AACCAATTTT GAAACTTGAT ATAAAATGNA GGAGGGAGAT GACGGACTAG 300
 AAGACTGTAA ATAAGATACC AAAGGCACTA TTTTAGCTAT GTTTTCCCA TCAGAATTAT 360
 GCAATAAATT TNTTAATTTT GTCAAA 386

SEQ ID NO:3533

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04146

SEQUENCE DESCRIPTION:

GATCAGATTA AACCATTGAA GTTGGAAGTT CATNAGGCTA AGCCTGTNCC AGAAAATCAC 60
 CCACAGTGGG ATACAGCAAT AGAGGGGGAT GAAGACCAGG AGGACAGTGA GGGCTTTGAA 120
 GATAGCTTTN AGGAAGAAGA GGAGGAAGAA GAAGATGATG ACTAAGCAGT ACTCTGAATG 180
 GNCCACAGTG TTTGCACATA TTTNCAATTT TTTNCTGTTT TGGAAAGTGA TCATAAACCA 240
 GAAACAGTAC AGAACTGATG TTGNGGGNGG TGTNGTTTTT TTA CTCTAGA NATGGGTGCA 300
 TAATATNACT AGGCAGTGGC GGTGCCTTGG TNCANCCTGN AAAATGTTAA GGCTTTNTTG 360
 AAACCTTTCC AGTNGGGGNT GGTCCNTTNA N 391

SEQ ID NO:3534

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04147

SEQUENCE DESCRIPTION:

GATCCGCCCG ACTCGGCCTC CCAAAATGCT GGGATTACAG GCGTGAGCAT TCAAGTCTGG 60
 CGAGAGAGAT TGTTTCTAGA TGAGGGTGGG GCGGGGTGTC CTTAGCCCAA AGCTTGTGCC 120
 AGTCTCTATC GGAAATAAAT GCCCCAAAAA CCTCAAA 157

SEQ ID NO:3535

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04148

SEQUENCE DESCRIPTION:

GATCTACAGC AAAACACAGC GGGAGAGGTT CGCCTGGGCT CTCGCCATGG CAGGAGAAGA 60
 CTTTGAATTC TAACGACGAG CCGTGTTGAA ACTTCTTTTG TATGTGTGTG TGTTTTTTTC 120
 ACTATTAAG CAGTACTGGG GAATTGTGTA CAAA 154

SEQ ID NO:3536

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04149

SEQUENCE DESCRIPTION:

GATCTAGGCA ATGATTTAGA GGAAACCTCN TCACAAAAAC CCCAGAGGAA GAATATGACC 60
TGTGTTTCAA ATTTGCCTT TCTGAACTAT TTAAAATTAT GTGTATGTTT TTGCTTTGTA 120
TTTTAAAAGT AAAGCTGCTG TCCTCAAGAA A 151

SEQ ID NO:3537

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04150

SEQUENCE DESCRIPTION:

GATCTATGAA AGCGGGGAGA GGGAACCTGA ATATTAATTA TGAGCACAAA TTTGAAGGAA 60
AGAAAACAAA GAACCATTAT CTAATCAAGC TTTGAAAGTC CTGCATGTTT GCCTTTTATT 120
TTAGTGTTGA CGCCAACATA GACTGTCTAA GGTATTTTTT TCCCCAAACA CTTGAATCTT 180
GGTCGTTGGT ATGTAATCCA CTCTCTAGAG TCCAGTGTAC TTTAGACTTC ATCTGAGTCC 240
AATATATGTA CCACACTACT GTTTTATTAA TGTA AAAACC TTGTAAATGA ATTCAGATG 300
GGTGATTAA GTGAGTCACA AGTCACAAAA CTTTGCTATT CATAGTTTAT CTNGN 355

SEQ ID NO:3538

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04151

SEQUENCE DESCRIPTION:

GATCTCTGCT TCCTGTACCT TGACATGCAA AAGGCTCTCC TAATACTCCA CATTCAAAC 60
GAAGAGGAAA ATTGAAATCT CTAATGAAGC TGCTGTGTGT ATTTATGANT ATTAATGAAT 120
AAAAACTGCT TGGATGGTTT ACCTTAAA 148

SEQ ID NO:3539

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04152

SEQUENCE DESCRIPTION:

GATCAACAAC TNGTACTCT CGGGAAGACT CCTCTACTCA CAGCTGAAGA AAATGAGCAC 60
ACCCCTCACA CTGTTATTAC CTATCCTGAA GATGTGATAC ACTGAATGGA AATAANTAGA 120
TGTAATAAAA ATTNAGTTCT CATTTAAA 148

SEQ ID NO:3540

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04153

SEQUENCE DESCRIPTION:

GATCAGAGTA AACAAAAGGA ATCTCAAAGG AAATTTGAAG AAGAACTGT AAAATCCAAA 60
 GTGACTGTTG ATACTGGAGT AATTCCTGCC TCTGAAGAGA AAGCAGAGAC TCCCACAGCT 120
 GCAGAAGATG ACAATGAAGG AGACAAA 147

SEQ ID NO:3541

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04154

SEQUENCE DESCRIPTION:

GATCGTGGCG CATGGCTTGG GGATTAACT ACCCTTGANG AGGACCCTTG TCCCAAACCC 60
 TTCTTGTCT CTCCTCCAAA AGTAGCTTCC TCCAACCCGC AGCCTCTCTG CACACTAATA 120
 AAACATGTGG CTTGGAAGG TTCAA 146

SEQ ID NO:3542

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04155

SEQUENCE DESCRIPTION:

GATCTTTAAG GACAAGTTTA TCCAGCATCC AAAAACTTT GGACTAATTG CATCATACTT 60
 GGAGAGGAAG AGTGTTCCTG ATTGTTTTT GTATTACTAT TTAACCAAGA AAAATNAGAA 120
 TTATAAAGCC CTCGTCAGAA GGGN 144

SEQ ID NO:3543

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04156

SEQUENCE DESCRIPTION:

GATCTGGGTT TTNATATCTT TATCTTCATT CAGTGAAGCA AGCCAAAAGC NCACATTTGT 60
 ATGCNTTAGG TCTTCTAAA ATGGTATCTG TAAACATGTG TCCAATATAA AANCTATTTT 120
 NAATAAAANG TTACATGAAA 140

SEQ ID NO:3544

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04157

SEQUENCE DESCRIPTION:

GATCAGCAAT GAAGAACTGG NCGGACAAAA TTNAACGTTN ATGTAATGGN ATTCCAGATG 60
 TAGGCATTCC CCCCAGGTCT TTTCATGTGC AGATTGCAGT TCTNATTCAT TTGAATAAAA 120
 AGGAACTTGG AAANCAAA 138

SEQ ID NO:3545

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04158

SEQUENCE DESCRIPTION:

GATCTAAATG GGCCAGGTG TTTACCCTTA TNTNGTTTTC TGCTAAATNA TGGAGGTTTG 60
GGGAGTTCCT TCTCCACTTG TTTGTGGAGG CCTGGGGAGT TTTNNAGAC CCCCAGTAAA 120
ACTNGTTTAA TCCTAAA 137

SEQ ID NO:3546

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04159

SEQUENCE DESCRIPTION:

GATCCCTGTA GAGGTGGTAT TAAAGATGGT CACTGAGATT AAGAAGATTC CTGGTATTTT 60
TCGAATTATG TATGACTTAA CATCAAAGCC CCCAGGAACT ACTGAGTGGG AGTAATAAAC 120
TTCTTGTCT ATTA 136

SEQ ID NO:3547

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04160

SEQUENCE DESCRIPTION:

GATCCTAAAA TNNTCTACTT TTGTNGCCTT ATCAGTNCTT TGCAATCTGC CTGTGGTTAT 60
CAGCACTTAA AGCACAATTT TGAAGGGGAA AAAAATGATA ATCACCTTAG TCCCAAAGAA 120
ATAATTTGTC ANNCN 135

SEQ ID NO:3548

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04161

SEQUENCE DESCRIPTION:

GATCTGGACT GGCTGGGAGT GGGGAGGGCG TGGAGACAGT CTACGGAAAG CGCTANAGGA 60
CCCCCGAGAG GGTGCAGTGG AGCCCTGAGC ATTGTAATAT GCGGCCAGC CTATAAACAG 120
CCTCCGTGCT TAAA 134

SEQ ID NO:3549

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04162

SEQUENCE DESCRIPTION:

GATCCTTTGC TGTAACTNG GAGAGACCAG TCCCAAACAG AGGGGAATTT TAAGCCCTTC 60
 TCATCACCCA ATTGGATGTT TTGCTTATA GCAAATTCCT GCAAATAAA TAAATAAATA 120
 TTTGCAAAAC TAAA 134

SEQ ID NO:3550

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04163

SEQUENCE DESCRIPTION:

GATCTATGGG AAGATACTTA TTTTCTGAG GTCCTTATGT CCTGTCATAT AATTAAAGAC 60
 TCAAGAGAAT TTATGTGAAA TGCTTCTGT ATGCCCAAAT CTTTAGATTA AAATTATATA 120
 GCTGCTCCTG AAA 133

SEQ ID NO:3551

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04164

SEQUENCE DESCRIPTION:

GATCTCAGTT CCNTAAAAA TGATAAAAT TTTTCATGTA TATTACATAT CTACCTACCA 60
 GAAATCCTTT TTACAATTTT ATATACAATC ATTTTAAGAC CTTTTTGAAT TAAATAATGC 120
 AAATGAACTA AA 132

SEQ ID NO:3552

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04165

SEQUENCE DESCRIPTION:

GATCACGGGG TGGNAGGNAA CCGNGGCGTC CCTGCNTGGG GCCCATGGGT GANACACTCC 60
 AGTACTGAGA CCTAGAGTCC AGATGCTTGT AGGAGCCAAG TCGTGTTCTA AGTATTTATT 120
 TAAAACAAAA GAATCACGTT TTCCCATTTG TAAA 154

SEQ ID NO:3553

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04166

SEQUENCE DESCRIPTION:

GATCCTTAAT TGTAGCCTTT GAAGGATGCC CTGTGTAGAT TATTCAGTGC CACAAATTGA 60
 AAGCTTCCAT GTTTAATNTT ATCCTCTTGC TATATAAATA AAGCAAATAT ATTAGGCCA 120
 GGGTCTCACT GAGGGGGAGC TGTCTTGCA TCTTTTAGAG TAACTATTC TATAAACATA 180
 TGCAAACAGC CCTAAATAAA TCTAAAGTCT AAA 213

SEQ ID NO:3554

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04167

SEQUENCE DESCRIPTION:

GATCCCAAGG GCCCAGATAA CGCCCCAAC TTCTTGGGGT TCACACGCGT CCTGAGACAT 60
CTGGGAACTG CCTCTGCCTG GNCCAAAGCT ATTCCATTAA AACTTTATTG CTGTNCTTAC 120
TCAAA 125

SEQ ID NO:3555

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04169

SEQUENCE DESCRIPTION:

GATCTGTGTA CAATTTTNGT CACTANGACT TTCCTCCAAG AACTAAGCCA ACTTGATGTN 60
NCAAAGCACA GCTGTATATA ATGGTGATGT CATAATAAAG TTGTTTTATC TTTTAAGTAA 120
AAGTAAA 127

SEQ ID NO:3556

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04170

SEQUENCE DESCRIPTION:

GATCAAGGAC TCTGGATAAT TGGCATAACA TCCTGGAATA GCTGAAACAG AGATATTATT 60
CTCTGCTGTC CTCTGTTGTC TTTGTCTTTT CACGTCTTAA TAAAAGTGCT GGTGACAAGA 120
GTGAAA 126

SEQ ID NO:3557

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04171

SEQUENCE DESCRIPTION:

GATCAGAGCC ATACCCTCT TCACCAATGG GAAGTCAAGA CACCTATGGG TAAAAGTTCT 60
CTCTGATGCA TGAAACTCA GAGTGATAAA GTAATTTTAA AATAAAAAATT TGGAGAAAGC 120
AAA 123

SEQ ID NO:3558

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04172

SEQUENCE DESCRIPTION:

GATCTAAAAG TTTTCACACA TAAATTTTCAT TAATTTGAAA GATTATTTTT AAACCTGCATA 60
GGTCCACTTG CCTCTAAATA AAATNAACCT AAAATAAAAA CAAACTATAC TTTGTGAGAA 120
A 121

SEQ ID NO:3559

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04173

SEQUENCE DESCRIPTION:

GATCTCCCC AACCCACAA AATGCTTAAA AGATAACTTA GCTCTTNTT CAGGGCTCAG 60
TCCTTTGGAT GTAATCCGAC TAGGCCAGTN AACCTAAATA ATAAATATCC TCCTCAACAA 120
A 121

SEQ ID NO:3560

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04174

SEQUENCE DESCRIPTION:

GATCCTGAGT TTTCTGGGAC AATTCCAGCT TTAATCAATA CATTTTGTTA AATGTGCCAT 60
AAAATGAGAC TTTTACGCC TTTATAAGGC CTTAGATGTA AATAAATCA CCCAAACAA 120

SEQ ID NO:3561

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04175

SEQUENCE DESCRIPTION:

GATCATTGTA TTCAGAGATT GTAAATGAAA AAATATAGAA ACTATTTAGT TTTGGTAGAT 60
TTTTTTCTG ACAATGTGAC CAGACTGAAT TTCCTATAA AGAAAAAATG GCGTGCAAA 119

SEQ ID NO:3562

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04176

SEQUENCE DESCRIPTION:

GATCCCAGCA TTTTCCATCG ACTTGTAATT GTTTCTGCTA CCTGACAATC ATCGCCTTGA 60
GTACTGGGAC AACCTTTGAT TACTCATTAT ATCCTCAATA AATATTTGTT GAACTAAA 118

SEQ ID NO:3563

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04177

SEQUENCE DESCRIPTION:

GATCCTGGCT AGANTGNTAA TTAAGATAT TTAATTTGAA GCACCATTN ANTGTTCGTA 60
CTAGTAGAAA ATGATGTGAA TTTCTTTCT GTTCGGCTCC TATTTTCCTC ATCATTN 118

SEQ ID NO:3564

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04179

SEQUENCE DESCRIPTION:

GATCATAGTC GGGCATACTT ATCTATATCC NTAACCTCTA TATCTTTAA TAAATGTGAG 60
NACTGTTCTC ATGGAGANGA AA 82

SEQ ID NO:3565

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04180

SEQUENCE DESCRIPTION:

GATCTAAAGC NTTTNTGTCA GATTATTTAA TATNATGACT TCATGCTTTA TTATGCCTTA 60
TNATGGCTGA CGTATTACTG TGGTGAAACA AAATATCTTT AAAAGTTAAA ACATCCAGAT 120
ATATAAGCAA TTTTNCCTTA AGGATAAAGT ACCTTTAAGC ATGAGTGTAT CACAGCTTTC 180
ATTAGGNAAA CTTTTCATTA CATACTTGTT TAAN 214

SEQ ID NO:3566

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04181

SEQUENCE DESCRIPTION:

GATCCCCNAA TGTGTATGAA TGACTGAGGC TTTGTAAATT AAGGGACGTT TGTTTGAATA 60
AAGTTATTTG ATGGGGTCAA AGAAGCCATA TGTGATTTGA AA 102

SEQ ID NO:3567

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04182

SEQUENCE DESCRIPTION:

GATCCTCTCC TTAGCTTAG CTCATGGGGC TCTTTATAAA GGAGTTGGGG GGTAGAGGCA 60
GNAAAATNGG AACCGAGCTG AANGCAGAGG CTGAGTTAGG N 101

SEQ ID NO:3568

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04183

SEQUENCE DESCRIPTION:

GATCTGCAGT GCTTCACTGG AAATAATTTA TTCATTGCAG ATACTTTTAA GGTGGCATT 60
NATTCATTTC CTGTGCTTTA AATAACAAA TGTACCAA 99

SEQ ID NO:3569

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04184

SEQUENCE DESCRIPTION:

GATCACCCTG GGCACATGTT GTCAGGACCT CCTGGGGTTG TGTCATGGAT GCGTGCCTC 60
AACCTTAGCA AAATAAACTT TCTAAATTAC TGAGAAA 97

SEQ ID NO:3570

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04186

SEQUENCE DESCRIPTION:

GATCTTCAGT GTGTCTGCAT AAGCTAACTT AAGATGAATT TAAGTACANN TTTCTGAAAT 60
ATTTCTATTG AAATAAATTA CTTAAATTA NNAAT 95

SEQ ID NO:3571

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04187

SEQUENCE DESCRIPTION:

GATCTTTGTG AATTCTATGA ATGTATTAAG TTATCATATG TACTCCCCAA AATAGGTACA 60
TCTATTATGT ATCAATAAAA AANTTTAAAA CAAA 94

SEQ ID NO:3572

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04188

SEQUENCE DESCRIPTION:

GATCCCTTGA GCCGAGGAGG TTGAGGCTGC AGTGAGCTAT GGTACACCA CTGCACTCCA 60
GCNTTGGTTA TNATGCAAGA CCCTGTTTAC AAA 93

SEQ ID NO:3573

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04189

SEQUENCE DESCRIPTION:

GATCGCACAC CTTTGCAACA GATGTGTTCT GATTCTCTGA ACCTACAAA TAGTTATACA 60
TAGTGGAATA AAGAAGGTAA ACCATCAAA 89

SEQ ID NO:3574

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04190

SEQUENCE DESCRIPTION:

GATCAGTGTC TCTAGTCCTA CCCAGTTTAA AAGTTCATGG TAAGATTGGA CCTCATCTCC 60
CTCAAATAAA TNTATTGGTG ATTTTNGAAA 90

SEQ ID NO:3575

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04191

SEQUENCE DESCRIPTION:

GATCCGCCAG GTGCGGGCGC TACTGCAGGC ACAGCAGGCC TAGGTCTCC CACACCTGCC 60
CCCTAATAAA GTGGGCGCGA GAGGAAA 87

SEQ ID NO:3576

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04192

SEQUENCE DESCRIPTION:

GATCCACCCA CACCTAAGTC ACAGAATTC TAAGTCCCC AACTACTCTC ACACCCNTT 60
AAAGATAAAG TATGTTGTAA CCAGAAA 87

SEQ ID NO:3577

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04193

SEQUENCE DESCRIPTION:

GATCAAACCTG AATGAAACCC CCACACACAC ACACATGCAT ACACACACAC ACACAGCCAC 60
ACACACAGAA AATATACTGT AAA 83

SEQ ID NO:3578

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04194

SEQUENCE DESCRIPTION:

GATCCCTATT CTGCGTGTAT GTGTTTGCAC ATGAGTGTTT GTAGACCATA GACCATTAAA 60
AAATACGGAA TTCAAAAGTT AAA 83

SEQ ID NO:3579

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04195

SEQUENCE DESCRIPTION:

GATCTATGAA TGTTTTNTT AAAATTACA AAGCTTTGTA AATTAGATT TTTTAATAA 60
AATGCCATTT GTGCAAGNTT TAAA 84

SEQ ID NO:3580

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04196

SEQUENCE DESCRIPTION:

GATCACATAA AGGCAAGAGG ATACTTCATG AATAATACAT TTNAATGCAA ATAAACAGAT 60
GGTTCACCTC TACTAGCTAT NNCCCTGTCT TNNTATACAC TGAGTAGATT AN 112

SEQ ID NO:3581

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04197

SEQUENCE DESCRIPTION:

GATCTATGTC TGTTGGTGCC AATGTGAGGG TGATACTCTC TCACTCTAAT AAACCTGGCA 60
CTTCTCCGAG TAAA 74

SEQ ID NO:3582

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04198

SEQUENCE DESCRIPTION:

GATCCTGTAT GTGTGTTGAG ATTTAGAGGT TTCATTTATN TTGCTGCTA ANAAATTGTT 60
ACTCTAATAA TAAA 74

2153480

SEQ ID NO:3583

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04199

SEQUENCE DESCRIPTION:

GATCACTGTA TAGACTGTGA AATTGATTT CTTATTACCN ATTGTTAAAT AAACGTGTGTG 60
AGACAGACAA A 71

SEQ ID NO:3584

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04200

SEQUENCE DESCRIPTION:

GATCTATTTC TCTGTCTACT TTGGANATGA TTGCATAATA AATAAAATTT TACTGTTTTT 60
TTAAAAGGAA A 71

SEQ ID NO:3585

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04201

SEQUENCE DESCRIPTION:

GATCTAAAGA TGTTTAGGGA AGAGCTCGAC TAAAGAACAA TGAAATAAAT GGTCCAAGGG 60
GAAGTCAAA 69

SEQ ID NO:3586

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04202

SEQUENCE DESCRIPTION:

GATCAAAAAT GTAAGTCTAT TGGTAGAGAT TAAGTAAAGT ATTTATTGCT ACATCATAGT 60
TGAAA 65

SEQ ID NO:3587

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04203

SEQUENCE DESCRIPTION:

GATCTGTGTT GCATTTCAAA ATAACTGGT GTGTGCTCTG CCTGGATTG AAA 53

SEQ ID NO:3588

01182

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04204

SEQUENCE DESCRIPTION:

GATCTCAGCC CAGGACGNCA AGCAAGCAGG TCTTGTCAGC AAGATTGTC CTGTTGAGAC 60
ACTGGTGGAA GAAGCCATCC AGTGTGCAGA AAAANTTGCC AGCAATTCT AAAAATTGT 120
AGTAGNCGAT GGNCNAAGNA TCAGTGGATN CAN 153

SEQ ID NO:3589

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04205

SEQUENCE DESCRIPTION:

GATCCAAATA AAGGTAGCTG CTGACCAAA 29

SEQ ID NO:3590

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04206

SEQUENCE DESCRIPTION:

GATCTCTCTA CAAGAGCCCC TGCCCTCTG TTGGAGGCAC AGTTT TAGAA TAAGGAGGAG 60
GAGN 64

SEQ ID NO:3591

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04207

SEQUENCE DESCRIPTION:

GATCCTTTC GTGACAGTCT TGTATGGAAA ACAGATGCTG ACAGAATTGT AGACTACCAT 60
NCCN 64

SEQ ID NO:3592

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04210

SEQUENCE DESCRIPTION:

GATCTCGCCT TGTTTCTTAC AAGCAAACCA GGGTCCCTTC TTGGCACGTA ACATGTACGT 60
ATN 63

SEQ ID NO:3593

2153480

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04211

SEQUENCE DESCRIPTION:

GATCTTTGCG AATTACAATG CATATATGTC TATTTATTCA ATATCTGTCA TATAATANCT 60
ATN 63

SEQ ID NO:3594

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04213

SEQUENCE DESCRIPTION:

GATCTTAAGA AAACCTCATA CTGTATGAAT AAGAAAATAA AATATTTAAA ACTTGAAA 58

SEQ ID NO:3595

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04214

SEQUENCE DESCRIPTION:

GATCGCCAAG TTCAAAGCTG TGCACATGTG GACACTCAAT AAATGTTTCAT TGGTGAAAAA 60
CAAA 64

SEQ ID NO:3596

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04215

SEQUENCE DESCRIPTION:

GATCCAAAAA GAGTCGACCN GCATTNTTTA TATTAATAAT AAAGTCAAGA TTAAAA 56

SEQ ID NO:3597

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04216

SEQUENCE DESCRIPTION:

GATCTTTGTT AATGTCTTGA TTCTGTTTCG AAAGCACAGA CTAGTGCTTA AA 52

SEQ ID NO:3598

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

01184

CLONE:HUMGS04218

SEQUENCE DESCRIPTION:

GATCGCACCA CTGAGCTCCA GCCTGGGCAG CTGNATGAGA CTNCATCTCA AA 52

SEQ ID NO:3599

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04219

SEQUENCE DESCRIPTION:

GATCTGGAGG GACACACAGG AGACACCTGG CATAACCAAA AAATGATTAA A 51

SEQ ID NO:3600

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04220

SEQUENCE DESCRIPTION:

GATCGAAAAC ATATAGANAA AATAAAATGT GTGGTTGCAC CTGTACTGAA A 51

SEQ ID NO:3601

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04247

SEQUENCE DESCRIPTION:

GATCTAGAGG AGGATTGCA GGAAGAGCTC GTGGAAGAGG TGGTGACCAN CAGAGTGGTT 60
 ATGGGAAGNT ATCCAGGCGA GGTGGTCATC AAAATAGCTA CAAACCATAC TAAATNATTC 120
 CATTGCAAC TTATCCCCAA CAGGTGGTGA AGCAGTATTT TCCAATTTGA AGATTCATTT 180
 GANGGTGGCT CCTGCCACTG CTTAATAGCA GTTCAAATA AATTTTTTGT ATCAAGTCCC 240
 TGAATGGAAG TATGACGTTG GGTCCCTCTG ANGTTAATT CTGAGTTCTC ATTTAAAGAA 300
 ATTTGCTTTC ATTGTTTTAT TTCTTAATTG CTATGCTTCA GANTCATTG TGTTTTATGC 360
 CCTTCCCCC AGTATTGTAG AGCANGTCTT GTGTTAAAGC CCAGTGTGAC AGTGTCTATGA 420
 TGTAGTAGTG NCTACTGGTT NTTTAATAAA NCCNTNTTGT ATGAAA 466

SEQ ID NO:3602

LENGTH:429

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04248

SEQUENCE DESCRIPTION:

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAT AATTAAGACA 60
 TCCTTAATTA AAAAGTTTCA AATCTAGACA CTAAATGTGT GTGAATGTAC AAAGAAAACA 120
 AACCATTGCT TATGCTGTTA TATACTAGAG AAATTTGTT TTGCTTGCTG TTTTAACTTG 180
 ACAGATGAAG GACTTTAGTT GAACTTCATA TTGTAAGAAC TGTTAATAAA AGTTGTCAAG 240

TAAAAAGCGC TATATCTAAA AAGACTTTAT GAACAGTTAT TCTATCAACT TTAAAGGGT 300
 TTAAACCTG CCCAGAAATT ACCTTGGTAT CTGAAGTTTC CCTCTGTCTC CTCCTCTAA 360
 TTNAGGCTTG TTATTTGTCA TGCACCAGCA TTTGGGGGNT AATAANAATT TCTTNGGTTC 420
 TNGTGGA 429

SEQ ID NO:3603

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04249

SEQUENCE DESCRIPTION:

GATCTGTTGT TTGTTTTTAA GGTGGTGTTT TGTAACTTC CAGCAGGATG CAGAATCTAA 60
 CTGGTAAACC TATAAATTGG TCAAATTNA CCCATGTTGT TTCTTTGAAA ACAATGTATA 120
 TNCTCTAATA TTTGGATATA GGGTATATGA NCATTAATGC AACTTAATTG TATTTCCAAG 180
 TACAGTACAT ATGNCAGAT TTCTTTTCT AACCTTATTT AGTGATAGAG GTGTGGTAAA 240
 CNCTTCCATT ATGTTTATGT ATTANCACTG TAATTTTGTC ATTTTNATAT ATTTNGATGT 300
 TATGTAAC TAATGATACA GGATTAGGTA TTTCTTCTG TATTCCTTTT TATGTGGAGA 360
 TGATATTTT ACATAGCAAA GTATTGTAAT GCATTAATAA TAAATGGTCA ACCATTAAA 419

SEQ ID NO:3604

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04250

SEQUENCE DESCRIPTION:

GATCTGCTAG TTCCAGGCCT CTAAGACAGG AACGTATGTG CCATAAGTGN GTCTACTTCA 60
 CAGACTCAAT GAGGCAGAAA TTATTGTAGT TTTCTCCTAT TTCTCTGCA CCCAACTTTC 120
 TNCTTGATT TCAAAGGCCA GGCCATGTAC ACTAACGTCC TTGAAATTTG CAGTTCTGTA 180
 TGCTTCTATT CCAAATCATT CATTACCAAT AAAAACGGAA TACCACCCTT TCCATTTTAT 240
 AGNCTCATC CCCTATTTCT GTCAGACAGT TATATGACAG GGTGGNCNGN GGGCCTCTTA 300
 GTTCATCCAA AGTCTNNCT GNAGTGCTAG NCTTTCAGAC TCTTATCACT GGAAATCNTT 360
 AAGGGTTGAG GGGGNTTAN TTTCCAGNA CTTGTGNAGG GNTTCAACTG TCAAAACTN 419

SEQ ID NO:3605

LENGTH:404

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04252

SEQUENCE DESCRIPTION:

GATCCGACAC AGAGAACAGG AGGNACTAGA GCGACANAN AGNAGGGCTT TAAGCCAAAC 60
 TACATGGAAA ATGGTGATAA AAGAAAATNT GGCTGAAGTT ACCCGAAGT CAGCTTGCA 120
 TGTAATTCAG AAGAGTTAAG ACCAGAAGTA CTGGAATCAT ACTTCCTTTC AGTCTTGCCA 180
 CTTGCCTAGT GAGGCTTTTC CGAACCTGGA AGGAGACGTC TAGAAATCCC AACTTTGCTG 240
 TGTAAGGACC ATTAGCTGCA AGTCAGTGGA AGTCTATAGA AAANAGTGTG AATTCATAG 300
 TGGTCTTGAC TTCTTAGCAA GGATTTGGA TAAGTCTAAA ACTTCAGACT TAAAGCTTTG 360

AAGCATGTTA ACTGCATGAN ATATTAAACA TTTCGAACTT CAAA

404

SEQ ID NO:3606

LENGTH:403

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04253

SEQUENCE DESCRIPTION:

GATCCATGAA TTAACAGAGG CATATATTTA AAATGAAATT TAATGAGCAC TTAGTGA CTT 60
 CATTGTGTCA AGAATATTTG ATTTCTATT GTGTGCATGG GAGGTTTACA AAAGACAGAC 120
 TGTCCCTATG CTTGTNCAGC TTACAATCTA TTAACTATT AGAGGCCCTG TGAGATGTAG 180
 GCAGTTATTT ACAGATGAGA AACTAACAC AGCAGTGGCA ATGCTGGGAA TGGCCAACAG 240
 GCTTGGAATT CAACTCAGTT TAGCACAAA GCCAGTNCTA TTAAGACCTG AAGTTCAACA 300
 GTGGATTCCT TACCCAAATA GTTTTAAAG TATGCTCTAA GGNCCAATGT TTTAATGAA 360
 ATCTTGGNTT NCAAGTNGG NNTAAAAGG TTCTGAGCAT AAA 403

SEQ ID NO:3607

LENGTH:396

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04256

SEQUENCE DESCRIPTION:

GATCTTACTT CGTTGACCCA TATTTTCCC CTGACCAAGT TACCTGTAAA CTGGAATTG 60
 CAAGGGGATG CTGTGATGAT AACCCCTTC TATTGCTGTA ATGTTTATAT AACCTGGGAA 120
 ACTGAGAGAA GGGGATGTGT AAATAAAGC TTAAACATT TAGTAATGTG TTAATATGTC 180
 ACTCTCTCTT ACCCTGTTTC CCTTTTTTGC CAGATGATGA TTTTTTTATT TTTATTTTGT 240
 ACTTTACTGG ATGACTGTGA AGCGNTGAGT ATTGGGTTGG GGTAGGTGTG TTGATTTTGA 300
 GAGTGCATGT TAAGACCTGA AGGGGAAC TA CTGAGGATG ACTTAAGAAG CATCCCATGC 360
 AAATATCTTG TTTTGGCCNG AATAAAATAT TTCAAA 396

SEQ ID NO:3608

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04257

SEQUENCE DESCRIPTION:

GATCTGCCCG CCTTGGCCTC CCAAAGTGCT GGGATTACAG ACATGAGCCA CCACGCTTGG 60
 CCGGGATAGT ATATTTTAT AGCACTTCCC CTA CTGCTTCTC TGTGGCTACA 120
 AGGGACCCAC AGAATTACAG GGAAGTTACA GGGNNGCAGG TTTCATCTCA ATATTGGGAG 180
 AGATTTCAA CAATCACACC NNNNNNCGA AGGAGTGGG TGTCACTAGG AATTTTATT 240
 CCCAGTCCGT CAGGAATTTT GTAGAAGGC TTCATGTGCT GGTACCAATA GGACAGGAAG 300
 ATTTAATCA GCCTTACTAT CTATGTTTT TTATGGAAC TGTGTGTATG TATACATACA 360
 TTTTCAAAA AGNANAAATT AAATGATTAT AG 392

SEQ ID NO:3609

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04258

SEQUENCE DESCRIPTION:

```
GATCCGCCCCA CCTCCGCCTC CCAAATTGCN GGGATTACAG NCCTNAGCCA TNCCCACCCG 60
GCCAATAAAA ATTTTAACTT AGCTAAAATT GACTCTCATG CAAATAAGAT AAAATGAACA 120
TATGTTAAAT ATTTTAACTT AATGAGAGAA ATAGTAAGAT GTTACCAGTT ACTTGATGAT 180
GGAGGAAAGG ACGAAAAGCC AAGGAATACA TGAATGCAG CTCTAGGTGC TGAAAAAGGC 240
ANGGAAAGGT TCTACGTTAG NGCTTCCAGA GGGAGCTCAG CCCTGTCANC ANCNTNGTTT 300
CAGCTCAGTC ATATCGNTGT TTAGACTTTC TGGTCCCCAG NGCTGGGCGG GGGATATATT 360
TCCTGCTGTT TTAAGNCNCC NNATTTTGTG GN 392
```

SEQ ID NO:3610

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04259

SEQUENCE DESCRIPTION:

```
GATCCTAAGG GGTTCAGGGG GACCCTACCC CCACCTCAGG TTGGGCTTCC NTGGCCACTC 60
ATGCTCCACA CCAAAGCAGG ACACGCCATT TTCCACTGAC CACCCTCTAC CCTGAGGAAA 120
GGGAGACTTT CCTCCGATGT TTATTTAGCT GTTGCAAACA TCTTACCCT AATAGTCCCT 180
CCTCCAATTC CAGCCACTTG TNAGGCTCTC CTCTTGACCA CTGTGTTATG GGATAAGGGG 240
AGGGGGTGGG CATATTCTGG AGAGGAGCAG AGGTCCAAG ACCCAGGAAT TTGGCATGGA 300
ACAGGTGTA GGAGAGCCCC AGGGAGACGC CCAGGAGCTG GCTGAANGCA CTTTGTACA 360
TGTAATGTAT TATATGGGGT CTGGGGCTCC N 391
```

SEQ ID NO:3611

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04261

SEQUENCE DESCRIPTION:

```
GATCCGACCG CGTGN TGCCG CTCTGCTCTC TCATACGCGT GTATGTTTGG TTCCATGTCA 60
CAGCCCCCTA GGAGCCAGTN ATGCTCGGCC TTGCGCCCGT NCCACCTCCC AGGCCACCCT 120
TCCTGGGCTT CTGGGCCACC TGCCCTCGGG GGGCCCTGC NAGGGTGCCT GGNGTTCCCA 180
CGTGTCCCGG GGCTTTTCCA GGAAGCCCGA GCCCAGGACC TGTGGCAGA GTTGCCAGGG 240
TTACATTTTT NAAGCACCTG CTCCTTTTNT TGCAGTGTAT TTTCTACAAC CAGATTGTAT 300
TAATATTTTT AACTTTGCC TTTTAAAAA TATACCTAAT ACAATATATT TAATTNTGAA 360
TTAAACTCTT AAACTTTCT TCCAAA 386
```

SEQ ID NO:3612

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04264

SEQUENCE DESCRIPTION:

GATCCCTTTG GGGCATGAAG TGTGACAAGT GTGGGCTCCT GAAAGGANTG TNCCAGAGAA 60
 ACCAGCTAAA TCATGACACC TTCAATTTGC CATCATGACG CAGACCTGTA TACATTAGGN 120
 TAAATCTGAA TTTCCACTGC TTTGGAGAGT CCCACCCACT AAGCACTGNG CATNNAACA 180
 GGTTCCTTTG CTCAGATGAA GGAAGTAGGG GGTGGGGCTT TCCTTGTGTG ATGCCTCCTT 240
 AGGCACACAG GCAATGTCTC AAGTACTTTG ACCTTAGGGT AGAAGGCAA GCTGCCAGTA 300
 AATGTCTCAG CATTGCTGCT AATTTTGGTC CTGCTAGTTT CTGGATTGTA CAAATAAATG 360
 TGTGTAGAT GGAAG 375

SEQ ID NO:3613

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04265

SEQUENCE DESCRIPTION:

GATCCTAGAC CAGCATGCCA GTGTGCCAAG GCCACAGGGA AAGCGAGTGG TTGGTAAAAA 60
 TCCGTGAGGT CGGCAATATG TTGTTTTTCT GGAACCTACT TATGGTAACC TTTATTAT 120
 TTNCTAATAT AATGGGGGAG TTTCGTACTG AGGTGTAAAG GGATTTATAT GGGGACGTAG 180
 NCCGCNNTCC CNNGTGTGT AGGTTTCTCT TTTTCAGGCT TATACTCATG AATCTTGTCT 240
 GAAGCTTTTG AGGGCAGACT GCCAAGTCTT GGAGAAATAG TAGATGGCAA GTTTGTGGGT 300
 TTTTTTTTTT NACACGAATT TGNGGAAAAC CATTAAATCA TTCAAAATAA TAANCTNTT 360
 TTATTNGGGA AA 372

SEQ ID NO:3614

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04266

SEQUENCE DESCRIPTION:

GATCTAAATA TATATTTTGT ATATTATAAT ATTTTAGGAA TAGCTTAATT AAGANCTCAC 60
 AGACTTTGAC AAAGTGGTAA CTAGACTTTT AATTACTAGA TTCTCAAAT TAGGCTTAAT 120
 GCCTGCTAGC ATGCCAATCC AATCCCATGA CTGATGTTAT TATACTAT GGCAAATACA 180
 AAGTTGTAGT ATTATGGTTC TTGATGGTGT GATTTACTTA TGTAAATTAT GTACAAATT 240
 AAGTTCAATG AAACACTGAT TTAATGTACT GAAAGGTAAG TAGTACCATA GTGAATTATT 300
 TCCTGTCTTG CCTTAGGTTT ATTTTATNA TCTTCAATAT TAGANTAAAT GCTAAATTAT 360
 TTTCATTTTA AA 372

SEQ ID NO:3615

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04267

SEQUENCE DESCRIPTION:

GATCTGAACT CCTTATACAT AAGAAGGTGT GTATATTAAT CCAATTATGG ACTTAAATA 60

TTTTAAAAGT ATAAATACCC TTATTTGCTG CAAAGACCAG TGTGTAGGCA TTTGCTTTT 120
 AGCAATATTT TTAAGTGCTC CATTTTAATG CCGAGGAATA AGTCTTTTGG CAACACAAAC 180
 TGGTCAATAA TAGGTAATGC AGGTATGTTC AGGTTAAGCC AACAATGTTT TGCATTTT 240
 TGCTTATTT CTGTCAACAC TAATGAAGTC AACATTGCCT GAATGTCTGA ATAATGAAAC 300
 ACATCCCNGT TAAAAAGTAT GTAAC TGAAA AAGAAATAAA AAANAAATTA AAAGGTAGGT 360
 TTTTTTAAA 370

SEQ ID NO:3616

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04268

SEQUENCE DESCRIPTION:

GATCCCATTA TATAGTATGT ATAGCTGAAA TCTGTAATTC AATCACTTTT TCTCTTTTAT 60
 CCTCTAACCA AAAAATTGTT TAATTTTGCA TCCCAAATGT TTTTAATCTT TGTATATTTT 120
 TNAAAAATCC NTTTCTCCTC AGCANTGCCT TTTTNGTGGT TGTAATAGTA CTTACTTGCA 180
 CTTTGAAGAT GAGTTACTCC TTGTCATCTT ACAAATATGT GATATGGTAA TTTNCATAAC 240
 AGATGTCAGT TTTGANCCAA GAATTGGTGA TTTGTTTATA AGAAAAAAC TGGCTTCATT 300
 NCTGTGNAAT TGCTCTTTGG NAAATTNCTN NTTNACACGT GTAAGCCAAC CTGAGGTACC 360
 GTGATGGGTN 370

SEQ ID NO:3617

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04269

SEQUENCE DESCRIPTION:

GATCCCTGCT CAAGCAGCAC AGAGGAAGGG GCAAGACGTG GCCTGTAGGC ACTGTNTCAG 60
 CCTGCAGAGA AGAAAGTNAG GCCGGGAGCN TGAGCCTGGG CTGGAGCNTT CTCCCCTCCC 120
 CANTTGGACT AGGGGCAGTN TTAATTTTNA AAAGGTGTGG GTCCCTGTTT CCTCTTCCAG 180
 GGGTCCAAGG GAACAGGAGA GGCACTGGG CCTGTTTTTT CCCTCCTGAC CCTGCATCTC 240
 CCACCCCGTG TATCATAGGG AACTTTCACC TTAATAATCTT TCTAAGCAAA GTGTGAATAG 300
 GATTTTNACT CCCTTTGTAC NNCNGNCTGA GGAAACGCAA ATAANAAGGG CAACATGTTT 360
 CTNTTAAA 368

SEQ ID NO:3618

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04270

SEQUENCE DESCRIPTION:

GATCGGCCCA GCTCCTGAAC TNTGANGAGG CCATTCATAT GGCATTCTTG GAACAAAACA 60
 CTGCACAGGT ACCAGCCTCT CCACTCCTGA CCGGGTTGGT GCTGAACAGT CAGGGATTGT 120
 NCTTGAAC TA GACTTCTGAT GCTTCTTGCA ATCTTCTTTC ATCTTTCCCT GAAATACACA 180
 AAATAAACAA NTACAATAAC AAATAGTAAT TAANTGACTT TCAGGATAAC ATCTAGTTGT 240

TCAGACTTCA CCCTTCACAG GTGTGTGTGT ATGTGTGTTT ATGTCTGTAT ATTGANGCAN 300
 TTTGAATTTA TTTTACTGTA TATNTNCTGA GTAAANGACT GANATGNNCT NCTTGGGTCA 360
 GAAA 364

SEQ ID NO:3619

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04271

SEQUENCE DESCRIPTION:

GATCTGAAGC CTTCCATAAA TNAGAGGCCA TTCATATGGC ATTCCTGGAA CAAAACACTG 60
 CACAGGTACC AGCCTCTCCA CTCCTGACCG GGTGGTGCT GAACAGTCAG GGATTGTTCT 120
 TGAAC TAGAC TTCTGATGCT TCTTGCAATC TTCTTTCATC TTTCCCTGAA ATACACAAAA 180
 TAAACAAATA CAATAACAAA TAGTAATTAA ATGACTTTCA GGATAACATC TAGTTGTTCA 240
 GACTTCACCC TTCACAGGTG TGTGTGTATG TGTGTTTATG TCTGTATATT GANGCAATT 300
 GANTTTATTT ACTGGTATAT GTTCTGAGT AAAAGNCTGA AATGNNCTNC TTGGNNCNGG 360
 AAA 363

SEQ ID NO:3620

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04272

SEQUENCE DESCRIPTION:

GATCCAGGAT GTACTTGGAT GAGGAGGCCT GGCTTATCTA GGAAGTCGTG TCTGGGGTGC 60
 TTATTGCTGC TCCATACAGC TGTACGTCAG CCCCTTGCC TTCTCTGTAG GTTCTTGGCA 120
 GCAANNNGC AGCTTCACT CAGTGACACA AGTAATTACT GAGTCCTAAT TTGATAGCCA 180
 CCAACTGTAC CTGGGTAGGC AAAGTCAGAT TTTNGAGGAC CTTTTTCCTG ATTTGAAGTT 240
 TTAATTACCT TATTTCTNT TATGCTTNC CTCTGTCTTG TAATCNTNCT CTCCTAAAA 300
 ANCTCCCTA TAAATTCAAT TAATTTGGGT TAATTTTAGG ATAAACCCAT TTANTTCNAA 360
 A 361

SEQ ID NO:3621

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04273

SEQUENCE DESCRIPTION:

GATCCAGATN CTTTCGGATG TCAGGGATAT TCACATTGAC ATGTCTNNNN AGTGTTCAG 60
 GAGATTTTAG TTTGAATAGT ACAATTTTTT CTCTTACAA CAAACTTAG AACGGCTTCT 120
 AACTTATTC TTCATGGCCA AGAACTACC CTAAC TTATC TCGATAAATA TTTAGTTCTG 180
 TCTTATTCT AATGTGTAAC ACAGGTTTAA AAAATAATAT ATAGATTTTG CATTATATAA 240
 AAAAGATTTA ATTTATAGAA CCAAACTNGA ACATATGTTT AATTTAGCCT AATCAGAAGG 300
 TTACAGAAAA AGTTGCTGTA AAGATAGAAT AAAGGGTATT GTACTGGTCT GTTTTAA 359

SEQ ID NO:3622

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04274

SEQUENCE DESCRIPTION:

GATCTACAGC AGCTGCATCG AGGACTCCCA CAGAGGTGCT ATAGGGCTGC GCATTGCACT 60
GGCCATCTCA GCTATAGCCG TCTTCCTGGT CTTGGTGTCT GNCTGTATCC TTCGATTTGG 120
CACCAGGTCT CTCTGCAACT CCATCATCTC CTTGAACACT ACAATNAGCT GTNCTGAAGC 180
CCAGAAAATT CCATGGACAC CCCCTGGAAC TGCTCTGCAG TTTTACTCCA ACCTACACAA 240
TGNTGAAACC TTTTCTTGGG TGAATTTGGT ATTGTGGTGT GTGGTCTTGG TGCTCCAGGT 300
CGTGCAGTGG AAGTCTGAAG CCACCCATA CCGGCCTCTG GAGAGGGGTG ACCCTN 356

SEQ ID NO:3623

LENGTH:420

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04275

SEQUENCE DESCRIPTION:

GATCCCCCT GNCAGACACC AAAGCTGTGA ACAGAAAGAC TGCCTGGCCA GCAAACCTTG 60
GGACATCAGC CTNGCCAGC CTGAAAGCAT CCGNAGTGAC CTAGAGAGTT CTGATGCACA 120
GTCAGACGAT GTGCCAGACA TCACCTCANA TGAGTGTGGC TCCCCCGCT CCCATACTGC 180
AGCCTGCCCC TCGACCCCA GAGCCAAGG TGCACCGAGC CCAAGTGCCC ATATGAACCT 240
CTCTGCCCTA GCCGAGGGAC AAAGTGTCTT GAAGCCAGAA GGTGGAGAAG CCAGAGTATG 300
AAGTGGAAATG AATGCTCCTG TTCTGAGANG AACTTGTAA CTGCATCTTT TGGAAATTTT 360
TTTTTTTTT GCCCAGGGGN NAGGGTTTNT GGTTTTAAAT TTANAGGNCN TTTGGGCAAN 420

SEQ ID NO:3624

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04276

SEQUENCE DESCRIPTION:

GATCAGAATT AAAC TAGTAC TATGAAATGT CCTTTTGAAT GTNAGGTCAA GAAATCCATG 60
TACAGAGTCG TGCATTTCAT TGGCTGTAAC TGTCAACTT GCCTTGATT AGAAGTTAAA 120
TCCCATCGTA AATACATCAC GAGGCCAGCT GTGTGATTTC TGAGACCTAG ATGAGAGTCC 180
NATTACTTCA AGCNTTGATT CAGTAAATNT TAAGCAGCAG AAGNCTTCGG ATGGGTTGAA 240
AATCAATNTT ACAAGGTTTT AACTCATAAA CCCATNNGGG NTTTTTTTTT TCCTCTGCAA 300
NNGGTTNCTA AGGCTANTCC NTGGTAACAC TNTGGGAAAN AAATNTGGAG GN 352

SEQ ID NO:3625

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04278

SEQUENCE DESCRIPTION:

GATCTCCAGT NGGCCCTTGC AGGCCCGGCC TCCTGCCTCT NGAAGGCCCTA NCACGGGGCCC 60
 GGCCTCGGCC TCGGCCTCAC AGCAGACTCT CCACGCCCAG CTAGCTCTTG CCTCACTGCG 120
 GCCTCCCCAG TCCAAAGCTC CTGCCTTTNG GCCACTTCGG CAGGTCCAGC TCCTGCCTGC 180
 CAGTGGCCTC TTTAGGCCCA GCTCATTCTT CACGTCGGCC ATTCCAGGCC CCGTTTTTCC 240
 CTTCCGGCAG CCTCTTGGCC TCTAATTTGT TTATNTTTTG TGTATAAATC CCAAAATATT 300
 GAATTTTGA ATATTCCAC CGGGGGNGTA AATATTTTGA TAGGTAAA 348

SEQ ID NO:3626

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04279

SEQUENCE DESCRIPTION:

GATCTTTATT AAGACAGTGG AAAGTATACT ATTAAGTCAT CATAGCTTT TGGAGACTTG 60
 TCAANACAG CAATNAGAAA ATAAGACCTA GCATACCGTG GAGAACCATT AAAAATTNA 120
 NANGAAACAA CAAGTATTAT GTCAACTTAC TTCAAAGGCG AGTTTTGGGA TTNATGCAG 180
 TAAAGATTCC CTGTTTTATG ATTGTCCCTT GAAAGTCAAA TGGGGGCCTG TCCATTGTCC 240
 TCTATTAANC TTNCAGAACT GTCACCAACA AATTTGAGTT GCCTTGCTA GGGTTCTGGG 300
 TAGTGAAGAT ATTNATNAT ATAATNAAAT AACTGTAG TACTTAN 347

SEQ ID NO:3627

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04280

SEQUENCE DESCRIPTION:

GATCAGAGGA GGAGTGTGAG TGTCTCATA CTCACAGCAA AAGGAGGGAA TTCAGGAGAG 60
 GATTGAAGAA GCGGTTCTG TTTTAAAGC ATTTGCAATC ATTGCTGGAG AGACAGAACC 120
 AACAGATGGG GAACAATGGC CAGGGACTCC AGGCCTGATT TAAGCCAATG CCGCCCTGTG 180
 GTCTTTACCC ACGAATGGTG TGGAAAATNA GAGCAGGGAA GAGGATTTAC TCACTGGCTG 240
 TGGAGTTAGG TCAGAAGGGG GNTGGAAAGA TGGAAACGTA TGGNTTTGGG GACATTTCTT 300
 AATCTNTAGG CTTACCTTC CTTAACTGAA ATTAAAAGCC N 341

SEQ ID NO:3628

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04281

SEQUENCE DESCRIPTION:

GATCGACCTG TCATGTTTT AAGGTTATCC AGGCTGTATA TCTCTGGAAN AGAAGGGAAT 60
 GGCAAAGAGT GGGAGTCTGA GTCAAGTTTG GTTTTGNTT NNNAAGAGAC AAGGTCTCTG 120
 TAATCCAGGC TGCAGTACAC TGGCATGNCC ATGGCTCACT ATAGACTTGG GCTCAGCCAA 180
 TCTTCCTGCC TCAGCCTCCT GAGTAGCTGG GNTTGGTTTT CCCAGGGCC ATATGTCAGC 240
 TTATTTACCC TACTCACTTG GTGTNTCCCA GNCTGCCAGC CATGCTGTTC ATCCAGTATC 300

TTCTNNATGG GGATTACCTA TTAAGGGGAC TAACACAAAA N

341

SEQ ID NO:3629

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04282

SEQUENCE DESCRIPTION:

GATCATGGAA CCCCTCTTCC GGCAGTTGGC CAAATGTGTC TCCAGCCCAT ACTTCCAGGT 60
 GGCAGAGCGA GCTCTCTATT ACTGGAATAA TGAATACATC ATGAGTTTAA TCAGTGACAA 120
 CGCAGCGAAG ATTCTGCCCN NNCATGTTTC CTTCTTGTA CCGCAACTCA AAGACCCATT 180
 GGAACAAGAC AATACATGGC TTGATATACA ACGCCCTGAA GCTCTTCATG GAGATGAACC 240
 AAAAGCTATT TGATGACTGT ACACAACAGT TCAANGCAGA GAAACTAAAA GAGTTGCTAN 300
 AANTGNAAGA NCGGGNNGAN GCATGGGTTA AATTAGAAAN 340

SEQ ID NO:3630

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04284

SEQUENCE DESCRIPTION:

GATCTGCCAC ATGTNTGAGG GTTGCAGAGC CCGCTGTGGA GGTAAGATTG GAAACACATG 60
 NAGCAGAGGG AAGACATTGA AGAAAACATC TCTNCTGGAA TATTGGAAA AGAACACTCT 120
 TCTGGACCTG GTTGAAGCAG GAAAGATGGA GGCAAAGTAG TGAAATAATC CAGAATTTC 180
 ATGCTTTTNA ATGTNCTTAG TGATACTGAC CTGTGATAAT ATAATCCCA GGGAGGACTG 240
 GGAACCTTAT CTCTTGAGAT ATTTGCATAA TTTATTTAAT TTAAGCCTCA TTCTCCTTTT 300
 GTNCATTTTG GTAATAAACT GGATTGAAT TGTGAACAN 339

SEQ ID NO:3631

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04285

SEQUENCE DESCRIPTION:

GATCCAGCCA GTATAGAACT AGCTCTGTAG GGGTGAGGAG GACTNTGCTA TGTATCATCC 60
 TNGATTGTNT TCCTTCAAGG AGCATTGCAC TTGCCTTCCC AGACCTTCCA CCTTAGGTTC 120
 TGCTGCAAAA AGCACCAGTG CTGAAGATGC TGCAAGACCA AATCATAGCT CATAAAATCA 180
 GGTCTGAGA TAGTTACCCA TAAAGAGGAA TCCTTTGAGT GTATGCCATT GGTGAGCCGA 240
 TGAGCATGGA CCATAGAAGG GCTCAATGTA GANTGAAACT ACCCGTGTGT AAAAAGAAGN 300
 TTGGNTTAAA ATGGCTACTT TGGATGGGNA CCAGTGTGN 339

SEQ ID NO:3632

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04286

SEQUENCE DESCRIPTION:

GATCAGAGGG GAAACAAACG CCAAGGGGTT GGGAAATGGGT CGGCATCTGG AGTCTGAGAC 60
 AGCTGCCCTC CTGCGTCAAG GGCTGGGGGC CTCAGCTTCC ATCCTGTGCC AGCCTCCATG 120
 TGGACAGCTC AGCTTATTGT CCACCACCTG GAAATNCCTC GAAGCTTCAT NNGTCCAGGT 180
 CAAGAGAATC CTGTTCCCAG ACCTCTGCCC AGCCAGGCCT TCCCAGCTCA GGGCTGACTC 240
 CTGCACCAAG TGACGCACTT TTNATACTG GTCTACCAAT GNCTCCCCTT CAAGTGAGAA 300
 CTACCCTTTA CATTTAGGAG TGTGGCCCCG CAGTAAA 337

SEQ ID NO:3633

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04287

SEQUENCE DESCRIPTION:

GATCCCTGTA TGCNGCCAAG GATGGGACTT CCAGCTAATG AATTTGTACA TGCAGCCAAA 60
 TTTACAGGAA TTTTTTAAAG AGGCAGAAAA ACTTGAAATA CCAACATTCT GGCAAAAAAN 120
 ANTCAGTTTT ATGANGAGTA AGTGGAACCT GGGNTGCAGG ANCAAAAGAG GGAAATGTTG 180
 GGCAACATT TTNNTGGGAG CTCCCTTCGC TGTGTGTCAG CAGAAACAGA TTCTNAGTTC 240
 ATTTTACTC CCACTGTATT ATAGTTTANC AAAANTNGTT TATATCTTGG AAAAAAANCT 300
 TTCTGTTTAA AAAANTTAAN CAAGTGAATG TNGGAAN 337

SEQ ID NO:3634

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04288

SEQUENCE DESCRIPTION:

GATCCCACTG ATTGGCCAGC CGAGCGAGAA CCAGGCTGCT GCATGGCACT GACCGCCGCT 60
 TCCAGCTTCC TCTNAGCCGC AGGGCCTGCN ACGCGGGCAA GCGTGCTGCC TCTNTNCTGT 120
 GTCGTTTTGT TGCCAAGGCA GAATGAAAAG TCCTTAACCG TGGACTCTTC CTTTATCCCC 180
 TCCTTTACCC CACATATGCA ATGACTTTNA ATTTNACTN TTGTAGTTTA ATCCTTTGTA 240
 TTACANCATG AAATATAGTT GCATATATGG ACACCGACTT GGGAGGACAG GTCCTGATTG 300
 TCCTTTCTCC AGTGTACATG TTTTACTCAC ANATAANATT NTTTCAGCAA GTAAAGNGGG 360
 ANNGGGTTTT GGTNGNGNGG NGTGNGGTGN 390

SEQ ID NO:3635

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04289

SEQUENCE DESCRIPTION:

GATCTGGCCA TTTGGTACAT AATCCAGCAC AGATAAGCTG GGTGGTAATG ATAATAAAAA 60
 TGGTTTTCTC AAA 73

SEQ ID NO:3636

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04290

SEQUENCE DESCRIPTION:

```
GATCACCTGG GTTTCITTAT TTATCGACTG TGTCATGACA AGGAACTTA CAAACTGCAA 60
CGCAGAGAAA CTATTAAGG TATTCAGAAA CGTGAAGCCA GCAATTGTTT CGCAATTCGG 120
CATTTTGAAA ACAAATTTGC CGTGGAACT TTAATTTGTN CTTGAACAGT CAAGAAAAAC 180
ATTATTGAGG AAAATTAATA TCACAGCATA ACCCCACCCT TTACATTTG TGCAGTGATT 240
ATTTTAAAA GTCTTCTTTC ATGTAAGTAG CAAACAGGGC TTTACTATCT TTNCATCTCA 300
TTAATTCAAT TAAAACCATT ACCTTAAA 328
```

SEQ ID NO:3637

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04291

SEQUENCE DESCRIPTION:

```
GATCCTGTGA ACCGTTACTT TGCCTAAATC ACTTGAGACT TGAGTNTTTA ATAACAAAGC 60
ATCAATATTC ACTAAAGTCA ATCTNTTTN ANTTTCTGTN ACTTGGCTAG AAGCTCTTGA 120
CACTAAGGGA TTAGTGTTAA TTTCCCTGG GGGTGTCCA CTAGGGCATT ACTGTATAAT 180
GACTTGATGT TGCCACATAG ACTTCAAGAT ATATAATATT TTNAGGATTT TTTGATTGG 240
CCTATGTTTT ATTGCATAGT GTGAACCGTG TAAAGCTTGG TTAACCTGTA TATAGATAGC 300
TTATTGTTGA CTAGTTATAG TGTATTTN 328
```

SEQ ID NO:3638

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04292

SEQUENCE DESCRIPTION:

```
GATCCTTTCC CTGGATACAT AACCCTAGTA GATAATGTTA CTGCAAGATG TAATGNCCAA 60
ATCCAACCTA CTGCAATNT TACTATGGAA ATCTCAATGC AAAAGTAGCC TTTGTNATTT 120
TTTTTTTAAA CCGTCTCCAT AACAGANCAC TTAGAATTAT TAGCCATTTG CTGCAAAGTA 180
TTTGTTTTAA AATGTCTGGC ATATACACCA CTAACATTTA ANTGCCCAAC ATTCGGTCTA 240
TACGTGAAAA ACCTAGANGA AANGCCCTGT TGGAGTTTGT ATGTAGAGTG CAATANTACA 300
TCAATAAAGG TATTTTAAAA TGGAAA 326
```

SEQ ID NO:3639

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04293

SEQUENCE DESCRIPTION:

GATCTGTTGT ATGTAATAAG TAACACAGAG TTTTAAACA AATTAATTAT TTAGCTTTAT 60
 TGAAGTTTGT NTTTTNCCTT CCGAACCTGG AGTATCATAT TATAAACAGC AGTTTCACAC 120
 CAGAATAGCA GTGCCCTTNC TTTTGTACA TACTGATTGG NCCTTCTTT ACTGTTACGT 180
 GGACACTTTC TATGTTAGTT TTGATGCATA ATTCTTTGAA TCCTTTTATA CAAACTAGAA 240
 TGTATGTGTA AGAATACCTG TCCCTGCAAT GTAGTAACTA CAAACTTATT TTTAAATAAA 300
 TAGAAAACCT GTTTTTCTAA GCTAAA 326

SEQ ID NO:3640

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04294

SEQUENCE DESCRIPTION:

GATCCAAGAG TTTAGTGATT TCAAAAGCCT TGGTCTCAGG AGAAGATTAA ACTTTCATAT 60
 TGGGCACTGG TTCACTTTAA AACACACACA TACACACACA AAACAATTTT TTAAGAAATC 120
 CTAATAAGTA ACATACCCAA AATGCTCTGT CTTGAGTCAT GAGAACCATC AGTTCTTGAT 180
 ATTGTCTAGA CTTGCATCTA GAGCTACGTT GTAAAATTCT TTTAGGCATG TGTTAGATTT 240
 CTGTGTAAAC TTTGTTTAAA TGTAAGCTTC ATACTACATT GTCAGTTTTT GTCTTAATAA 300
 AACTATAGAT TTATAATCCC TGAAA 325

SEQ ID NO:3641

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04295

SEQUENCE DESCRIPTION:

GATCGGAATT TCCACCAATC AGCGGGAAGC CTCGGCCCTG TAACTGCTAA TGGGAGACAG 60
 CAGCGCCACG CCACAGGCTT TTCCCTGGT TTCGGGAGGG NTGGGAGGCC AGGTGGGGCT 120
 CCCGNCCAGA CCCTTTCCCG AGGTCCGNCC TCTCCGCTT NTCNTAAAT TCCTCTTTTG 180
 AGTNCCTCC CTTCCGGTTG AGAGGCGGGG GTTGGCCCGT AGTTGTACAC TCAGTCACCC 240
 TGAAGTGTGG AGGNGGNGGG NCTCCNTTGT GGAAGTATT GCCTGGGGAT TTGGTNTGTT 300
 TTATTAAGGG ATTTGAAAAA ATTCAGATGG ACTTNACTAG TATGGACTGT TNGGGTAAAT 360
 ATNNGCTTNC NGGGTTAATA AAATGGACAG N 391

SEQ ID NO:3642

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04296

SEQUENCE DESCRIPTION:

GATCCAGTCA ATACATGCAG ACCAGTAAAA TCTGATTTGT GCAGAGTTCT CCATCTGACT 60
 CTCACCTATT TCTGTAGATA TATACATATA TAAATACAAG TATGTNCTTA CGGCACAGTA 120
 TTGCTGACCT TTAGTTCGAG GTTTTGTGCG TTGTTGTTTA TTTTCTTCTT CTTGCAAGTG 180
 CTATCCATGT GAGTGTGTGA AGTTTCTCTA ATAAGTAAAA CACAGGCCCT TTTCCTTGTT 240
 TGTTTTGTGT TAGTTTATTG TAAACAGCCA TTTGTTGTAA ATNATTATTG GCATTAAATT 300

ATAATTTATG ATTTTCAAAG CAAA

324

SEQ ID NO:3643

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04297

SEQUENCE DESCRIPTION:

GATCCAGTCT AGGCCCGTAT GTTGCAATTT GCTGTCATGT CTTCTTAGTC TCCATCNCAT 60
CTCAGTGGTC TTTCTTTTC CATGACTGTG ACAGAAATGA TTTGTATCCT TCATATATCT 120
GCAGTCACAT GAAGTCTATT TGTCCCACTA CTGGTGACGT AAATTTTGGT AACTTGGTTG 180
AGGGTGGTAC CGTCTAGGTT TCTCCATATT AAGTTGCTAT TTNCCCTTGT GTATTTAATA 240
AGTATCTTAT AGGGAATCC TTTGAGACTA TGTAATATC ATATTACATG TATTNGCCT 300
GTTTATGAT CTTTGAAGA TAN 323

SEQ ID NO:3644

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04298

SEQUENCE DESCRIPTION:

GATCTGGAGC ACAAGGAAC CCCATACATT CCTAGTGGGA ATGCCTAATG TTAGAGTCTG 60
GAAGACATTT TGGCAATTNC TTAACCAAGC TCTTCTTACC ATAAGATGAA GCAACTCCAC 120
ACCTTGGTAT TTACCCAAAC GAGTTGAAAG CTTATGCCA TACAAACACC TGTACAAGAA 180
TGTCTATAGC AGCTTTATTC ATAATTGCCA AANCTTGAGG GCATCCAAGA TATCACTTAA 240
TGGGTGGACA GATAAGCTGT GGTACATCTA TACAATGGAA TATTAAGGTG CTAAAAAGAA 300
ATGAGCTCTG AAGCCACAAA 320

SEQ ID NO:3645

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04299

SEQUENCE DESCRIPTION:

GATCGGGATT AATATTAGTG CATTTTAAA AACTTAAAA GTTTTACAAN TGTATTTGTG 60
TATTCCTGT TTTGGTGCCT GTTTTATAGA AGATGATTGA NGAATCACTG AAGATTAAAA 120
TAAAAAGGA ATTAGAAATG GAAAATGNAT TAGAAATGAG TAATCAAGAA ATAAAAGACA 180
AATCTGCTCA CAGTGAAAT CCTTTAGAGA AATACATGAA AATCATCCAG CAGGAGCAAG 240
ACCAGGAGTC GGCAGATAAG AGCTCAAANN NGATGGTCCA AGAAGGCTCC CTAGTGGACA 300
CGCTGCAATC TAGTGACAN 319

SEQ ID NO:3646

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04300

SEQUENCE DESCRIPTION:

GATCATAGAA GAAGAANCCA GTAATTGANC AAATCCTATT TAATGACATC CTTGTAGCAT 60
AGATGGTCTA TAATGCTGAC CACAGATTTC TTAGAAATGC TGCTCTCTCT ATTAACTAA 120
CATTTTGTNC AGTTTTCCT CCAGTGGGAG CAGAAAGGGT TTTNCAGCT GTTAAATCCT 180
AAAANTCAAT ATAATTNATT TATGTAAGAA AAATAACTCA ATCAATATAT TTTTGAACCT 240
TTTAAGTACT AATTTNNTNT TTATCAAGTA GAAAAAAAT GTATTGCCC TAAATCCTTA 300
AAATACAAAT GCTATAAA 318

SEQ ID NO:3647

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04302

SEQUENCE DESCRIPTION:

GATCCTGAGG CTTTGGCTGA AATTCTGCTT GAAACTTGTA AATCAATCAC ATATTCTTTA 60
GAAAATAAGA CCTACTCATC TGTGAGAACA GAAGCTTTAT CTGTGATAGA ATTGCTGCTT 120
AAAAAACTTG AAGAATCTAA ACAGTGGGAA TGTTTGACAT CTGAATGCAG AGTGCTCCTA 180
ATTGAGTCTT TAGCTACTAT GGAGCCAGAC AGCAGACCTG AACTGCAGGA GAAAGCAGCG 240
TTACTGAAGA AAACACTTGA AAATCTGGAA TAANTTAGAN GGGGAAGAAA CAAACAAGTG 300
CCATGTTCAT TGGGGGN 317

SEQ ID NO:3648

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04303

SEQUENCE DESCRIPTION:

GATCCTTCTC CTTCCTGGG ATACAGCACC TCCACCCTGC CAGGCCACCC NTGTAAAGGC 60
AGCCAATTCA GAGCCACCTC TTATGCCTGC ATCTCCCCA ACAATTCCTG CTGGGAAACC 120
ACTCCTCGTA TGTGTGTCATC TACACAGTG GGTTCAGC TTGAGAAGAA TCAAGTTCTA 180
CAGGGCTGCT TAAACACAG GTTGCTGGGT CCTGNTCTC AGAGTTTTG ACTCAGTCTT 240
GGTTGAGAAT TTTCAGTTCT AGAAGCTCCT GGGTAATGCT AATCCTCCTG TTCTAGGGGC 300
CATAGTCATT GTCCATN 317

SEQ ID NO:3649

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04304

SEQUENCE DESCRIPTION:

GATCTACACG CGGCTGGCCA CCATCTACCA CAACTNCCTC CTGGACCGTG AGAAGTCGCT 60
CTTNTTCTAC CAGAAGGCCA GGACCTTCGC CACAGAGCTC AACGTCCGCA GGGTCAACCT 120
GCCTCCTCTG CCACTCTGCG GGTGGGCCCC CTGGTTGGCC CCCAGCCACC CTNGCTGAGG 180
ACAGCATCCA AGGGAGTGGG TTTTGTGCAA GGGCTAGGGG TCTCCTGCCT NTCCTGGTGT 240

CGNCGGTGGC TCATTTTCTN GCAAATNGAG GCACGAACGC AGGGNCCAAA TAGCAATAAA 300
TGGGTTTTGT TTTTAAA 317

SEQ ID NO:3650

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04305

SEQUENCE DESCRIPTION:

GATCTATGCA ATTTTAAAC TAGTAATGGG CCAATTAAAA TATATATAAA TATATATNTT 60
NCAACCAGCA TTTTACTACT TGTTACCTTT CCCATGCTGA ATTATTTTGT TGTGATTTTG 120
TACAGANTTT TTAATGACTT TTTATAATGT GGATTTCCTA TTTTAAAACC ATGCAGCTTC 180
ATCAATTTTT ATACATATCA GAAANGNNG ANTTATATCT AATTATACA AAATAATTTA 240
ACTAATTTAA ACCAGCAGAA ANGTGCTTAG GAAAGTTATT GTGTTGCCTT AGCACTTCTT 300
TCCTCTCCAA TTGTAAT 317

SEQ ID NO:3651

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04306

SEQUENCE DESCRIPTION:

GATCTGAATT CTAAAGCGTC TTTCATTGTT TACTTTTAGG ATGAGGAAGT ACAGACAATT 60
GGTCAGATAG AACTGTGCCT CACTAAGCAA GACCAGCAGC TGCAAACTG CACCGAGCCG 120
GGGGAGCAGC CGTCCCCCAA GCAGGNNGTC TGGCTGGCAA ATGGGGCCGC CGAGAGCCGG 180
GGTCTGAGAG TCTGTGAAGA TGGCCAGTC TTCTATCCCC CACCTAAAAA GACCAAGCAT 240
TGATGCCCAA GTTTTGAAAA TATTCTGTTT TAAAAAGCAA GAGAAATTCA CAAACTGCAG 300
CTTTCTAAAA AACAAA 316

SEQ ID NO:3652

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04307

SEQUENCE DESCRIPTION:

GATCCTTGGG TTGTAAAGAG AGTAGAAACC CTAGGNAGCA GTGCTTTTGG GTCCTAGAAC 60
CTGTTGAGTT TCTAATGAAT ATTTGTAGAA TCTNATAAAA CAGTTTAAAT ACAAGCTTAA 120
GTGGCTTATG AATCCTGTNA AGCTCATTTA TGGNCTAGTG TAAACAATG TGAAGCTCTA 180
CTAAGTNCTG TCCTTAATCA TAAATAATAG CCCCTTGNGG NCTAGCCTGT CCTCTGGTCA 240
CCTTACCAGT TGGGTTGCAC ATTGTGTGGT CGTCCAATTA AACTCAATCT TNCGTGTGNC 300
AGGNGTAGT CTNTCCAATC ATGNCATAGN TTTCATCTGG TTTTGNCTG GTGGACGNAC 360
CTTCGGANTA ANTN 374

SEQ ID NO:3653

LENGTH:316

DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME ____ DE ____

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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NOTE: For additional volumes please contact the Canadian Patent Office

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04308

SEQUENCE DESCRIPTION:

GATCAGGACC AACCTGGAAT ATGCCAGATT TGGCTATGCT TTTTAANACA TTNATTGGA 60
 CAGCTCACCA ACCCCTGAAG GGGCCGTTAA GCCTGGTTAG TTTNTACCT ACTCCGAGTN 120
 TCCTCCCCTG CCCACCAGA TTGCTGCAGG GGC CGGTGT GCCTGGNAGC CAAATTNTG 180
 ACACTTCTTT TTTCTATGC ACTGGTTTAA CACAGCTGTN ATTTTNTTT CAAAATTGCA 240
 GCAGTCCAC AAGATGTNTG CATTGGACA AATAGTACTT AAAACAAAN CAAACAAGCA 300
 CTCAGCCCAG TTCCTN 316

SEQ ID NO:3654

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04309

SEQUENCE DESCRIPTION:

GATCTAATGC AGAACTTATC AGATATTGTG AAAAATCAGT GTGGGAGGTA TTCAGTCAA 60
 AGTCAGAAGG AAATGTATTA TCGTTATAAT TTCAAACCTT AAGAAAGCCT AAATTACCA 120
 TTGCATATCA AATTTTTTGT ATAATGTAAG GAAAACTTAA ATCCCTCCA TATCCTAAT 180
 GGCATTATA ATAATATGAC ACTTAACCTT GACAGCTAGA GTCTTACTTT ATGCTAATGC 240
 TAGATATCTA TTTNAANTT CCACGTGTGT AAACATGCTA TACTCTTCTG ATATTAANCT 300
 TACTAAGTAC ATAAA 315

SEQ ID NO:3655

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04310

SEQUENCE DESCRIPTION:

GATCCAAGAA GAACTAGAAA AAAAGTTGTT TGCAGGCTTG CAACCTCTCA NAAATTTTAA 60
 GGCTAGCTCT TCAACTATGT CTTTNAAAA GAATATGTCT GCCCAGCA GCCAGAAGTG 120
 ACAGATTCT TGTGAATGTT TACATCCTGC TGCTGATAGG TTCAAGGAAT TCTTTAAACC 180
 AGATTCTGCT GACATGAGAA GCTCCAGTGA TTTGTTTTT TGAAGGTCTG TATCAGAGCA 240
 AGCCTAACAT CTAAATAANG TTTGATTCTG GATTTCCAG GTGGGAAATA AATAAGAAA 300
 ATTTGGCTTG TCAA 315

SEQ ID NO:3656

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04311

SEQUENCE DESCRIPTION:

GATCCGTGCC CGCNTCCAGG AGAAGTTGTC ACCTCCCTAC AGCTCCCCAC AGGAGTTTGC 60
 CCAGGATGTG GGCCGCATGT TCAAGCAATT CAACAAGTTA ACTGAGGACA AGGCAGACGT 120

GCAGTCCATC ATCGGCCTGC AGCGCTTNTT NGAGACGCGC ATGAACGAGG CCTTCGGTGA 180
CACCAAGTTC TCTGCTGTGC TGGTGGAGCC CCCGCCGATG AGCCTGNCTG GTGCTGGCCT 240
GANTTCCCAG GAGCTGTCTG GTGGCCCTGG TGATGGNCCC TNAGGCTGGG GGCCCATGG 300
TCAGCCCAGN NTGGGTTCTG TTCTNTGGNN CTTGTCANNC NNAANCN 347

SEQ ID NO:3657

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04312

SEQUENCE DESCRIPTION:

GATCATAACT GAACCAGAAT TTGGATTATA GANGTGA CTCTAGCTGT TTTTATTTA 60
GGTATAGGAA CACACAATGA GAACCTTATG TTTAGAATGT AGCAGTAACA ACAGAGGGTA 120
ACTACACTGC AAGACTTAAA TGGTTTGAGC ATGTGACACT ATCCTTTTGT TGGGGGGAGC 180
AGGGTATAAN ANTATACATA CAGGAGATTA GTTTAATAGT AAAGTTTTAT ATGTATGTTT 240
AACTTCCATG ATATTTATNA TTTNGTAGAG ACATTGTGA TTGTNTAGAG TTCTNGTNTT 300
TNTTCTATTT ATN 313

SEQ ID NO:3658

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04313

SEQUENCE DESCRIPTION:

GATCTTAAAA GTGGAAAGCA GAAAAAATAC TGTTTCCTGA AATTNAAAAG TTTTGGCAGT 60
GCCCAGCAGG CCCTCAACAT TCTCACAGGC AAGGACTGGA AGCTGAAAGG CAGGCATGCC 120
CTAACCCCCA GGCACGTCCA TGCCTGGNTC AGAGGCTTAC CACCTGANTC AACAAGGCTC 180
CCAGGGCTTC GTGTTGTACC TCCCCCCTTT GAACAGGAGG TCTGCAGAC TCTGAAACTG 240
GACCACCCGA AGATAGCAGC CTGGCGCTGG ANGCGGAAG ATTGAAAAGC TCTACAACAG 300
TTGTGTA 307

SEQ ID NO:3659

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04314

SEQUENCE DESCRIPTION:

GATCCCCAGA GAGGTGGCCC TGGACCTGGA GTCAGGAGGC GGTGTCCAGA AGAGTCGCTC 60
ATCAACCCCG GGTCAAGAG TAAGAAACCA GCTGGTGGCG TGGACTTCGA TGAGACCTGA 120
AGGTGCAGCA CAAGCGTGGC CCCGCGGGGA GTCCGCCTAT NAGGGGAGAG GCAGTCTTTG 180
AGGCCCCCAT CAGAGACCCC CCGCCACCAC CTCCACCTGC CTGTCTGGG CCAGGACTAA 240
CACGGCTCCT CAAATTCCTT CCCTGTCAAA TAAACAGCTC CTTGGTTGG AGGCTCTNGT 300
GGGAAA 306

SEQ ID NO:3660

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04315

SEQUENCE DESCRIPTION:

GATCCCCGTA GCAAGTCAGA AGTTACTCTC ATCAGTCGTT CATGGTCACA ACCTGAGGTA 60
CTCTGCTGAG TGGGCAAGGC TGAAGAAGAG GCCTGTGGAA TGCAGCATT CCTGCTGGAC 120
AGAGCAGGGC AGGCAGTTCT ATGCCTTGA GCTCCTGACT GCAGGGACTC TGTCCCCACA 180
CTCAGAAAAGA CTCAGCTCAC TCAATGAGAG AATGTGATTT ACTTTATAGA ACGTATAATC 240
AACTTTGTTG AATAATTGT TCTATTAAGG CTGTCTAAAG TATGTNATGT CTTTCATATA 300
GTATGAAGTG TTGAAAATTA ATAACGGGCC TAGTTTAGGA AAAAGCTGCT TAAANGNGTG 360
TGGCCCGTAN N 371

SEQ ID NO:3661

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04316

SEQUENCE DESCRIPTION:

GATCTGTATT GATATTTGAT AGTGAAAATG TTTATTCAAT TTTTCCCCAA AATGTATTTG 60
TTCTCTTAC TTGTTTATTC AGCTGTGGTG ACTTCAAAT ACTTTTCCA GGTGACAAAA 120
AAAACTCAG AAAAAATTTT AATCTTAATT GCATTAATAC TATAAATTGA TTTGGAAGGA 180
TTTAACATTT TATAATATNG GNNTCCTCT GCAGTAATGT GGCATATTCT TCCNNNGTT 240
CAAGCATTAA AAAAACTCT TAGCAAAGCT GCACAGCCTT CTTCATAAGG GTTCTCTATA 300
TTTN 304

SEQ ID NO:3662

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04317

SEQUENCE DESCRIPTION:

GATCTGCGGT GGGCCAAGAG TATCCAGGGA GAAACCTGTC CCTGGCAGGG CTGGAGCAGG 60
GACACTCCAG GCCCAGCTGA GGCTTCCTGC TCTGCATGGC AGGGGACATC TCTNACCTGG 120
TCAGGACCCT GGAGGTGGGA CAGCTGGTGC TAAGGGAATG TNAGCGCATC AGGGTTGGGG 180
AGAAGCAGTG GGTGGTCCAG GAAACCCCTG AACAGCTGG CCCTGGGGTC CCCTTTCAAG 240
TGTTTCCAGT TGTGGCAAGG GGTCAAGGAG ACCTTGCATT GCAAATCTNT TAGAAAAAAC 300
AAN 303

SEQ ID NO:3663

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04318

SEQUENCE DESCRIPTION:

GATCTGAAAG ATTACATTTA GAACATTTAG TACTATTACA CTCTCAGAAA CTGTNGTAAA 60
 AAGTCACATT TTCAAACTT CATGCATATT GTATTCTTGT TGGAAATAAG TCCTATAGTT 120
 TCTTAATTGT CTTTCATGCCG TCCATATTTA ACAAACATTG CAAGTCCTTT TTATATTTGG 180
 GTAATNATTT GTAATTTAGT GAAGGAGACT AGGGGATGTT TTCTTCCAAA GGAATTTAA 240
 AATCAATTTT ATGGTATTTT GAAAGTAAAA TACTCCTTAA CGTGTCATA TTTTAAAAAT 300
 GN 302

SEQ ID NO:3664

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04319

SEQUENCE DESCRIPTION:

GATCCTCTCA GAGTGCCAGG CATCCCCCCC GNACCAGCAG AGGCTCATCT TTATNAGGCA 60
 AGCAGCTGGA AGATGGCCGC ACTCTTTNTG ACTACAACAT CCAGAAAGAG TCGACCCTGC 120
 ACCTGGTCTT GCGCCTGAGG GGTGGCTGTT AATTNTTCAG TCATGGCATT CGCAGTGCCC 180
 AGTGATGGCA TTACTCTGCA CTATAGCCAT TTGCCCCAAC TTAAGTTTAG AAATTACANG 240
 TTTCAGTAAT AGCTGNACCT GTTCAAANTG TTTAATAAAN GGTTCGGTT GCATGGGTAA 300
 A 301

SEQ ID NO:3665

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04320

SEQUENCE DESCRIPTION:

GATCTGAAAA ATGAAGTTTG GTATCAAAAA NGTCATGACC CTGTATGTAA AGCAGAAAAC 60
 TTCAAATCTG ACTGTTTCCC ATTACCTGCT GAAGTATGTC TCCTGTTTCT TTTCAAAGAG 120
 GAAGANGAGT TTACAACAGA TGANGCAGAT GAAACTAGGA GCAATGAAAC CCAGAATCCT 180
 CATAAACCAT CACCTAGCAG GCTGTCAACA GGTGCATCTN CTGATGCTGT CTGGGNTAAT 240
 GGCATTGATG ATGCTTATTT TTTAGAAGCT ACTGAAGATG CTGAATTAGC TGAAGCTGCN 300

SEQ ID NO:3666

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04321

SEQUENCE DESCRIPTION:

GATCACTNAA TGGTCAAGTG GAACAAGCAC TACACGACTA ACCCCTATTG GGGTTTTTAA 60
 CTTAAGGGAG GCTAATTTTT AATTAACT GCTCGAGATA TGAGTTCTGC AAAAGGTGGT 120
 CCGCATCCTT GGCCCTCTGG ACATTATCAC TAAATTGCTT GTGCCTGTTA ACAAGAATAC 180
 TGACCAGAAT GCTCTTCATG TAGCTTATAC AGTTGGTTCA CTTTCATGCGG TTCTTGACAT 240
 GTTTATTTCT ACCCTTAATG CAATGAAATG TTTCATTAAT AAAAAACCAC TTTATATAAA 300

SEQ ID NO:3667

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04322

SEQUENCE DESCRIPTION:

```
GATCTTTCTG GCTCCACTCA GTGTCTAAGG CACCCTGCTT CCTTTGCTTG CATCCCACAG 60
ACTATTTCCC TCATCCTATT TACTGCAGCA AATCTCTCCT TAGTTGATGA GACTGTGTTT 120
ATCTCCCTTT AAAACCCTAC CTATCCTGAA TGGTCTGTCA TTGTCTGCCT TAAAAATCCT 180
TCCTCTTTCT TCCTCCTCTA TTCTCTAAAT AATGATGGGG CTAAGTTATA CCCAAAGCTC 240
ACTTTACAAA ATATTTCTCT AGTACTTTGC AGAAAACACC AAACAAAAAT GCCATTTTAA 300
AAAAGGTGTA TTTTCTCTTT TAGAATGTAA GCTCCTCANG AGCAGGGACA ATGTTTCTG 360
TATGTTCTAT TGTGCCTAGT ACACTGTAAA TGCTCAATAA ATATTGATGA TGGGAAA 417
```

SEQ ID NO:3668

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04323

SEQUENCE DESCRIPTION:

```
GATCTCTGAA AGCTCAAATG GATGGAATTT AGTTTGCGGG AAAGAGGCTT TGCTTTGCGC 60
ATATCAGGCT TAGGACTGTG GGAGGCTTAA GAAGCAGATG CTTCTTNNAT TGTACTCTTG 120
TNCTGCCCTT GTTTTTTGAA GGCTCTGACT TATAACTNCT GTATCAGAAG AAACATTTTG 180
ACAGTGTCTT GGTGGAGAT GAACATCCCT AATTGACATG TGATGACTAT TTCTNATTCC 240
ATTCTCTAA GAGTCATTGA AATTTTGTTT TGCTTGTTTG TTTAGCTTCA AGGTCTTN 298
```

SEQ ID NO:3669

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04324

SEQUENCE DESCRIPTION:

```
GATCATCTCT ATATCTAATT TGTATTATNA CTAATCTTAT TCCAACCTATT TNCTTTATNA 60
TACTGAAACA GTTTGTNCCT TCAGTCTCTG CTTGGGCTAC CTAAGAGGGA AGGGCCCCCT 120
ATCCTGTAAT CACATGACTT ACTTCACCTT GTCAATCACT GAGAAGATTG ACCCTCCTTA 180
CCCTGCCCCC TTGTCTTGTA TGCAATAAAT ACCAGTGGGC CTAGCCCTCT GGGACCACTA 240
CCGGTCCCGG GGTCTTGATG GTAGTGGNCC CANAGCCCAG CTTGCNTNCA CAAA 294
```

SEQ ID NO:3670

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04325

SEQUENCE DESCRIPTION:

```
GATCAAGAGG CCACCAAGTTG TACTTCAGCA CCAATGTGTC TTACTTTATA GAAATGTTGT 60
TAATGTATTA ATGATGTTAT TAAATACTGT NCAAGAAGAA CAAAGTTTAT GCAGCTACTG 120
```

TCCAACTCA AAGTGGCAGC CAGTTGGTTT TGATAGGTTG CCTTTGGAG ATTTCTATTA 180
 CTGCCITTNN NTNCTNACTG TTTTATTACA AACTTACAAA AATATGTATA ACCCTGTTT 240
 ATACAANCTN GTTTCGTAAT AAAACTTNTC CCTTTTTTTA AAATGNAANT AAA 293

SEQ ID NO:3671

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04326

SEQUENCE DESCRIPTION:

GATCTATAGT ATTTAATGT GCATCTACTT TAAATNAGTC ATCTTGGGGT TTNATAATT 60
 CCCTTATGTT CTTGCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
 TTCTCTTATA GTAGACAGGC AGCTATATGC AGCAAAACCA ATAAAGTTAT TTTTCAACTT 180
 TCATAGTTGT AAAATATCTT ATAACAGAAT ACAAACAGC TANGAAAACA TGCCACATTT 240
 NATTTINGCA TTTTCAAATA ATTNGTTTTT GGTGTAAGCA CAGGATAAAA AN 292

SEQ ID NO:3672

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04327

SEQUENCE DESCRIPTION:

GATCAAGGAT GCAACCTCAG GTTGAGAAAG AAACAGGGTT CCCTGGGCCC ATTAGACTGT 60
 TTGCAGGGCA TCACTGCTTC CCCCTGACAC CTCACAATA GCAAAAATTG TCTTTGTCTT 120
 TGGAAATNAT AGAGGGATTT GGGTATCCAG ATTGTGCAGA TGCAAACTTA GGCTGTCTTG 180
 ATGNNNACTT AGAACCACAG AAATGCTTTT AAAATGCCTG TTTTAAGATG GAATTGTTGT 240
 TTNATAATT TGATTTTAGT GCTAAATAAA TGATTGGCTT TGTACATGAA A 291

SEQ ID NO:3673

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04328

SEQUENCE DESCRIPTION:

GATCTAAAGG CTCTGGNTTT GCCTTCTTC AGTCTGACAC TGAATAACAA CCTCGACAAG 60
 GTGGGCATAT ACCTGGATTA TGAAGGAGGA CAGTTGTCCT TCTACAATGC TAAAACCATG 120
 ACTCACATTT ACACCTTCAG TAACACTTTC ATGGAGAAAC TTTATCCCTA CTTCTGCCCC 180
 TGCCTTAATG ATGGTGGAGA GAATAAGAA CCATTGCACA TCTTACATCC ACAGTAATGA 240
 GTCATAATAT TATACAAATT CAGAGTGTTA TTAAAGAGGT TTTGAAATAA A 291

SEQ ID NO:3674

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04329

SEQUENCE DESCRIPTION:

GATCCCAAAA GCTGTTTTNA GGTATAAGGA CAAGGAGAGG AGACAAGTGA CGACAGCCAT 60
 TCCCTTTTGC AGCTATCTAC TGTAGTGACA GCCATTTCTT GGTGATGGG TTGGAAGTCA 120
 TCAGAGGTTT GAAGAATTAC ACTGGCCTTT GTTTTCNNG AAATGCCGAC CATGGAGATG 180
 CTTTAGAGTC TTCTCAAATA GCTTAGATGT TGTAAATGNGG TTAAGCTTTG CTTCAATAAA 240
 CAGGGGCCCT CAGAAGTTCT CCTTTAAATT TTTANATAA AAAATTTAAA 290

SEQ ID NO:3675

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04330

SEQUENCE DESCRIPTION:

GATCTATCCC TGCTCACTG AAAGCCCCTG TGTAGTGTCT GTGTTGTTTT CCCTTGACCC 60
 TGGNNTTTC TATCCTCCCA AAGACTCAGC TCCCCTGTTA GATNGCTCTG CCTGTCCTTC 120
 CCCAGTCACC AGGGTGGGGG GGACAGGGNN AGCTGAGTGC ATTCATTTTG TGCTTTTCTT 180
 GTGGGCTTTC TGCTTAGTCT GAAAGGTGTG TGGCATTTCAT GGCAATCCTG TAACTTCAAC 240
 ATAGATTTTT TTTGTGTGTG TGGAAATAAA TCTGCAATTG GAAACAAA 288

SEQ ID NO:3676

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04331

SEQUENCE DESCRIPTION:

GATCAACCCC TGACCTAATC GGTATGTGA TCTACAGATT ACAGACATTG TATAGAAATG 60
 CACTGTGAAA ATCCCTATCC TGTTTGTTC TAATCTAACT ACCGGTGCAT GCAGCCCCCA 120
 GTCATGTACC CCCTGCTTGC TCAATCAATC ATGACCCTCT CACACACATC CCCTTAGAGT 180
 TGTGAACCTT TAAAGGGGAC AGGAATTGCT CACTTGGGGA GCTCAGCTCT TGAGACAGGA 240
 GTCTTGCCAA TGCCCTGGC TGAATAAACC CCTTCCTTCT TTAAA 285

SEQ ID NO:3677

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04332

SEQUENCE DESCRIPTION:

GATCACAAAA ATGGAACCCC CTGTTTCATG CTTCTACAGT CCAGCCAGCC AATCTGAAGA 60
 TGTCACTCTT ATAAAAAGT ATGACCAAAT GGCTATCTNC CACTGTTTAT NTTGGCCTTC 120
 ACTGACTCTG CTAGGTGGTG CCCTGATTGT TGGCATGGTG AGATTAACAC AACACCTGTC 180
 CTTACTGTGT GAAAAATATA GCACTGTAGT CAGAGATGAG GTAGGTGGAA AAGTACCTCA 240
 TATAGAGCAG CATCAGTTCA AACTGTGCAT TATGAGGAGG AGCAN 285

SEQ ID NO:3678

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04333

SEQUENCE DESCRIPTION:

GATCTCTGTG TTTGCAGTCA AAGGGCGGCT CACACATGGT CAAGTATTAT AAATNTCCTG 60
TGTATCTNAC AATGGAATCT ATTCTACAAT TTAAAGTATA CGCTTTCTGT ATATGGCCAT 120
TAAGTGAAGC TTAATAATCT TGTNTTNTCT GTCCTCATAG ATATTTTAAT CTGTGGCATC 180
CTCCTGTAAT CTCAGCATTT TGGGAGGCTG AAGATGAGAG GGTGCTTGA GGCCAGGAGT 240
TCAAGACAAA CCTAGGCAAC ATAGCAACCC TGTCTCTCCA AA 282

SEQ ID NO:3679

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04334

SEQUENCE DESCRIPTION:

GATCTGAGGT GATATGTTCT GAATGTAAGC ACCGTCAACA TCAGACACCT ACTCATGGAC 60
ATGTGGTTGC CGGATTTTCT TAAGATGTTT CCAGAAATGA CTGATATTTT ATATTTATAC 120
ATTTTAGATG ACAAAGCTTG ATATTTATTG CTGTCGCACA TTTTAAAGTT TTCTTTTGG 180
GTTGCTCTGT GNCANGGCGT GGTTACATGG TGNTAAATCG GTACCTGATA ATGTACCCAA 240
ATACTATGGC CAGATAATAA ATTGNGGTGC AAACAACAAA 280

SEQ ID NO:3680

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04335

SEQUENCE DESCRIPTION:

GATCACTGTG CAGTGGGACC ACCCTCACTG GCCTTCTGCA GCAGGGTTCT GGGATGTTTT 60
CAGTGGTCAA AATACTCTGT TTAGAGCAAG GGCTCAGAAC NCNNAATAC TGTCATGGAG 120
GTGCTGAACA CAGGGNNGGT CTGGTACATA TTGGAAATTA TGAGCAGAAC AAATACTCAA 180
CTAAATGCAC AAAGTATAAA GTGTAGCCAT GTCTAGACAC CATGTTGTAT CAGAATAATT 240
TTTGTGCCAA TAAATGACAT CAGAATTTTA AACATAAA 278

SEQ ID NO:3681

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04336

SEQUENCE DESCRIPTION:

GATCANAGAN TNACAACTGT TCATTATAGT GGTGCCTTAG GCAATCTTTN CAAAGTAAAT 60
TCAGGGCCCC ATTGCTACTT ATGCCATATT TGGACATACT TTTTTTCT TCAATTTTGT 120
AAACTTCCTG GAAAGCTGTC TTCCTAAGT ATCCCNAGT CTCTATCTAT GNGGNTAGTA 180
GTCATGGAAA TAACACATAA AGTACGCCAG NAGTTNGNTG GAACGTGTTA GAAACTGTTT 240
TGTGCTTTNA TGGATGTCAT ACTTGNCANT ACATGTN 277

SEQ ID NO:3682

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04337

SEQUENCE DESCRIPTION:

GATCTTTCTT TACTTGATGT GTCCTTCTNT TCGCAGATTG ATAACAGAGC TGTGCTAGAA 60
 CTGAATGCAA GCTTTCCAAA ANTNTTCATA AAAANAGCT TTAAGCAGTG ACTTAATATA 120
 TGTNCTGTAT TAAAATTAAT GTGCTTTGTT GGGGTTTAAT TTTGGNATTG GTTTTGGGTT 180
 TTNTTTTATG TTGTTTAAAT GGTAAGAATT AAGACATTTT NTAAGTTTAA AAGAAAAATA 240
 TGAAATTNTC CATTAAATCA AGTAAAAATG TGAAG 275

SEQ ID NO:3683

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04339

SEQUENCE DESCRIPTION:

GATCTCCGCA GTCTTCAGCG CATTGGCCCG AAGAAGGCC AGCTAATCGT GGGCTGGCGG 60
 GAGCTCCACG GCCCCTTCAG CCAGGTGGAG GACCTGGAAC GCGTGGAGGG CATAACGGGN 120
 ANACAGATGG AGTCCTTCCT GAAGGCAAAC ATCCTGGGTC TCGCCGNCGG CCAGCGCTGT 180
 GCGGNCCTCT GACCGTCGTC TCCTCACTCC GNCTTTTCAA ATTTTGTAT AACCCCGTGT 240
 TGTGTAAATA CAGTTTTTGC TCCGGTAAA 269

SEQ ID NO:3684

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04340

SEQUENCE DESCRIPTION:

GATCAGGCCA GTAGGTTGTG AATGCAGGCT GGAGCCCCCG AATGCCCCAN NCACACTGCA 60
 GCATTGACCA GACCATCCGA AACCTGCGTC CCTGGTGATG TTCTCAAGCC TCGGAAGTGG 120
 CAAATGGAAA TAATATGGCC GGTTCGGTT GTAGGAGAGT TGTGACTTAG GCAGGAGTCG 180
 ACCTCCTCAA GTAATGGAAC GATTTCAAAG GCAGGCTGCC CTGACCAAAA ATATCTGCCA 240
 TGAATAAAGG TGCCTGAAAT CCTAAA 266

SEQ ID NO:3685

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04341

SEQUENCE DESCRIPTION:

GATCTACTTT CAGGATTATT TTTGTNTTT GAACGTGACA GTNTGGATGA GGCAAGTNAG 60
 TTAGATGCT GCGACCCTGC GAGAAGCAAT AGCTAGTGAA CACATTAGCT CCCTACATGG 120

GACGCAGCTC CCTCTGACAT GTGTCTCTGC CCTTAACCAA GACAGAAAGG GGGTAAATGG 180
AGGATTGGNT TACTGTCTTT GCTGGTTAGT TTTGTGAAAT TTTAAAAATG TTCAACTTTT 240
GANTAAACTC CTTTAAACTT CTAAA 266

SEQ ID NO:3686

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04342

SEQUENCE DESCRIPTION:

GATCTCCTTC AGTNGTCTAC CCACTTCCGT CATTGTCCTC CGCTAGAATA ACAGAGTAGT 60
TGGTAGTCAT GGCCAGAAGG GGGGTGGGGG CAGTGTGAGG ACTGGGGTT TCTGTGCTGT 120
GTGACACAAG GAGATAAGTG ACAATNTTGA AGTCCTAACT TGCATTATTC TAGAAAGTAT 180
AGTGGTGATT TTTGTGCAA GATTGAAGT TTTAAAAAAG TACCAAGTTC CTGAAATTCA 240
ATAAAATATT TTTATTAATT TTAATGGAAG 270

SEQ ID NO:3687

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04343

SEQUENCE DESCRIPTION:

GATCTCAGCT CACTGCAACC TTCACCTCCC GGGAGCATGC TGCTCTATCT TTTTTNCAG 60
ATGTTTGAGC TATTCCAGGT TTTTGGGAT TTCTGTTGNT TTGTTTGTG TTTTGCTTTT 120
CTACATAATT GTTTGGATAA TCTTGTCAGT ATCTACGAAG TGCCTTGATA GTAAATATAT 180
NAACCTGTG TATCAATNTG GGGTAATTNC ACATNTTTTT CTATGTTGAG TTATCAATAA 240
ATTGATATTG TATATGNCTC TAAA 264

SEQ ID NO:3688

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04344

SEQUENCE DESCRIPTION:

GATCCTCAGT GCAAAATGTC TTGTGTANTT NTNTGTGAAT CCATGGGTCT GGCTAGAGGG 60
CCCAAAGCTT GTAAATATGG GGATAGTCTG GGTGAGACCC ATCTNTCCCT TACCCATCTT 120
GCTTCCAAGA CCAATTTGTAG TGAGCGAGTG GATGCTGTGC TACGTGTGAA ATCTGTCTTT 180
GCGGGGCCTG TCTCAGTGAT TCGNTTTTGG TATTNGTTTG TAGCTTTCCT GGAAGTCAAA 240
TAAATGTTTC CCCCCTCCA AA 262

SEQ ID NO:3689

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04345

SEQUENCE DESCRIPTION:

GATCTCAAAT GTGAACAGTT TACTAATGCA CTAAGAAGT TTAAATCTGT GGCACAATCA 60
ATGTAAGCAT GGGGTTTGT TCTGTAAATT GATTTCTAAT NTGAAATTAC TGAACAACCT 120
CTATTCCCAT TTTNGCTAAN CTCAATTCTT GGTTTTGGTA TATATCCATT CCAGCTTAAT 180
GCCTCTAATT TTAATGCCAA CAAAATTGGT TGTAATCANA TTTTAAATA ATAATAATTN 240
GGCCCCCCT TTAAA 256

SEQ ID NO:3690

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04346

SEQUENCE DESCRIPTION:

GATCTAAAAA GCTGAATAGC ATGTNAGTTA CTTGGTTTCA ACTTGAGTTT NCTTTTAATG 60
TTAATAAGAT TGAACTTTA GTATTAGTG GGAATGGAA AGAGTTGCCC TTGTGCAAG 120
TAATGAAGCC TGATTGATT ATGAAGCTGC TTAATCACTC TTCATGTGTT CAGAATTACT 180
GTTTTNTTG TTTGTTTNC CTTTNGTCA CTGTGGTACA TTAAAAATT NGGGAAGATG 240
CTTTACCTAA A 251

SEQ ID NO:3691

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04347

SEQUENCE DESCRIPTION:

GATCCCAGAC CTGNGTCTC TCCCACCCC TCCCAAAGC CACTGGAAGG AGCACATACT 60
ACCTAGAAGT AAGANGNGA GCCTCAGAAG AAAACAAAGT TCTATTTTAT TAATTCCTA 120
TGTGTGTGT TGTAGTCTT GTCTTAGCTC TGGACGTGAA ATACTTCGAT GATGATGATG 180
ATGATGATGA TGATAATAAT AATAATAATA ACAACAACAA CAACAATAAT AAAGATGTGA 240
AAACTCGAAA 250

SEQ ID NO:3692

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04348

SEQUENCE DESCRIPTION:

GATCTCAGAT AACTCAGTAC AGATAGCAAT TAGTCAGCTG ATTTGATTAC AATGGAGTAA 60
CCGACAATAT ATTTATTTAT AAAGCACATA TTCATAATAA CGAGAAGAAT TCAGAAAACC 120
ACTTAAGCAA GACCTTCTG AAATAAAANN TGTNGCTTTT TAAATAGTTT GTCCTAAGGT 180
GTTTAAANCA TGCAACCTT ATGTAAGGNN AANTTTCTG GTCCAANTAA NGTTGANGTT 240
TAAGGAAA 248

SEQ ID NO:3693

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04349

SEQUENCE DESCRIPTION:

GATCCTGGTT GGAAGGATGG GGACTCTCTC AAGGGGCTTT GGAAGAGCTC TTCTAGCCCT 60
TTATAAAAGG AGGGCAGCAG CTGAGACTGA TGAGAGGAGG GCAGCCTGCT CTGTTCTTTC 120
AGGGCCCCCC ACCCCCATCT CCCCTACCCT AGCCACCCCT AGGGCCTCTA CCCAGCGGGA 180
GGGGTTGAAG ACCAGGCCTG GTTTTATTAG AATTCATTTT GTAATAAAAG CCTTTTTTAG 240
TGGTGAAG 248

SEQ ID NO:3694

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04351

SEQUENCE DESCRIPTION:

GATCCTATTT TNATGAAATG TCCAGAACAG GCAAATCCAC AGAGACAGAA ACTAGACGAA 60
TGGTTGCCTG AGGGTGAGGG GAAACAGGGA GTGACTGATG ATGGGTTTTG TGTGGGGGCA 120
ATAGAATGTN CTAATAATTG ATAGTAATGG TTATACAACCT CTGAATATAC TAAAAGCCAT 180
TGTACACACG TAAAAAAGGG TGGATTGTAT GTGAATTCTA TCTCAATAAA GCTGTTCAAA 240
AATTCAAA 248

SEQ ID NO:3695

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04352

SEQUENCE DESCRIPTION:

GATCCACTCC GCCATCGATG CATCCCAGAC CCCCAGTGTC GTGTCGCAA GCATCCTAGC 60
AGCCTTCTCC AAAGCCACAT GTAAAGACTT GGTTATGTTT ATCTAATGTT GGGTCCAAGA 120
AGGAATTTCT TTCCATCCCT GTNAGGCAAT GGGTGGGAAT NATAGGACAG GCAAAGAGAA 180
GCTTCCTCAG GCTAGCAAAA ATATCATTTN ATGTATTGAT TAAAAAAGCA CTTGCTTGAT 240
GTAAA 245

SEQ ID NO:3696

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04353

SEQUENCE DESCRIPTION:

GATCTCAAAA CCACTATTTT TATTATTTCA TTATTTTCA GAGGCCTTAA AATTCTGGAT 60
AAGAGAATGG AGGAAAATAC TCANCGGTAC TTCATTATTT NATTCCTTT TATTAATAAAA 120
TTACTTCTAT GTTTTNATTG TCTCTTGAGC CTTAGTTAAG AGTAGTGTAG AAATGCATGA 180
NCTTCATCCT AATAAGGATA AANCTTAAGG AAAACCACAA TAAACCATGA AGGTGTACAC 240
AAA 243

SEQ ID NO:3697

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04354

SEQUENCE DESCRIPTION:

GATCTNTCCA CGGTAGCACT TGNCCTTTTC GACGCTTAAC CTTTCCGCTG TCGCCCCAGG 60
CCCTCCCTGA CTCCTGTGG GGGTGGCCAT CCCTGGGCCC CTCCACGCCT CCTGGCCAGA 120
CGCTGCCGCT GCCGNTGCAC CACGGCGTTT TTTTACAACA TTCAACTTTA GTATTTTAC 180
TATTATAATA TAATATGGAA CCTTCCCTCC AAATTNTTCA NGTAAAAGGT GGCTTTTCAA 240
A 241

SEQ ID NO:3698

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04355

SEQUENCE DESCRIPTION:

GATCAGCACT GCACTNTTAG CTGAGAGTGC GGGCAAGACA TAACTGTCC AGAGTTTAA 60
GNTTCTNGGA AAGACCGGAG GGCTTCTCCC CACAGAAGGC GGAGAGAGCT GGNCTCAGA 120
CATGGNTGTG CACCTTAATA AACCTGCTG TCTGCCTCCC TGA CTGCT TCTNNGGAGC 180
ATGGTGAGCA GCCCTNGTGC TCANCAGCCA TACCTATGGG ACACACACTA CGNAAAGGN 239

SEQ ID NO:3699

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04356

SEQUENCE DESCRIPTION:

GATCACAGGT GATTACACG TACACACATA AACACACCCA CCAGTGCAGC CTGAAGTAAC 60
TCCCACAGAA ACCATCATCG TCTTTGTACA TCGTATGTAC AATGCAATCA TTTCATACTT 120
TAACTGGTC AAAAACTAA TTGTGATTC TAGTCTTGCA AAGCTGTATG TAGTTAGATG 180
ATGTGACAAC CNCTAATATT TATCTAATAA ATATGTATTC AGATGAAACC TGTA 236

SEQ ID NO:3700

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04357

SEQUENCE DESCRIPTION:

GATCCATCCT TTATCAGGAA GTCTGAAGCG ACTATAAAGG TTTTNTANTT CAGATTTAA 60
AACCAACTTA TAAAGCATTG CAACAAGGTT ACCTCTATTT TCCCACAAGC GTCTCGGGAT 120
TGTNTTTGAC TTGTGTCTGT CCAAGANCTT TTCCCCCAA GATGTGTATA GTTATTGGTT 180
AAAAATGACTG TTTTCTCTCT CTATGGAAAT AAAAAGGAAG AAAAAAAGG GNAAA 235

SEQ ID NO:3701

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04358

SEQUENCE DESCRIPTION:

GATCCGTGTT CTCCATTTAT TAATGCATTG TAGACCAATT TAACTGCTGT GTTTCAGGAA 60
AATTCTTCCT AGTTTAATAA GCAAGCTAAA AGTTTATTT TTTATATTTA GTGCTTAATC 120
TTTGCCTCAT GTTATGTAAA ATTAGCCTGC AGATATTTTC TCTCAATTCT GTAGACTCTC 180
GCAAGATAAA CATTCAAACA GTGAAACAAA CANTAAAATA AATAAACCTA AA 232

SEQ ID NO:3702

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04359

SEQUENCE DESCRIPTION:

GATCCATCTG AACTATGAAG TGAGTACCTG GAGGAACTCC TACATTTAAG GCTTTCAAAG 60
GTTACAGGCT TTTCTGTGT GTGTGTGTGT GTGTGTGTGT GTGCGTTTGG AGAAAAATGG 120
AATTCAAACA CTGNNNTAG AATGTATGTT TACTTATATA GAATTAATGA ATNTATATAA 180
TAATAATNAC TGTATATAAT TNTAAAATAT AATAAAGTCT CTTTATCCAA A 231

SEQ ID NO:3703

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04360

SEQUENCE DESCRIPTION:

GATCTGGAGT TGAGAGCCAT GGGTTTGGAC ATGACTGGCA CAAACAGCTG TCATATGTTT 60
ATGGTCAGAT GTCATACATT CTCAGCTGTC TTGTTCCACC AGTATTTACC AGGAAAACAA 120
AGAATGTGTT AAGGGATGCT CCCCCACCCC ACATCTTAAG TCAGTGTGCC AAGTACTGAG 180
ATGATTTTAG GGACATTTTA TTTTAAATTA AATTACAAT CTAATGGTAA ATTGAAA 237

SEQ ID NO:3704

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04361

SEQUENCE DESCRIPTION:

GATCATCAAC AAGATTTTCT TGTGCAAAAT ATTTGACTAT NCTGTATCTT TNATCCTTGA 60
CTAAATTCGT GATTTTAAAG CAGCATCTTC TGGTTTAAAC TTGTTTGCTG TGAACAATTG 120
TCGAAAAGAG TCTTCCAATT AATGCNNNNT TTATATCTAG GCTACCTGTT GGTTAGATTG 180
AAGGCCCCGA GCTGTTACCA TTCACAATAA AAGCTTAAAC ACATTGTCAA A 231

SEQ ID NO:3705

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04362

SEQUENCE DESCRIPTION:

GATCAAAATT GAACCATTGT ACAGTTTGGN TTCTGTTTGC TTCAAAATAT GTAGAATTGT 60
GGTTGATGAT TAATTTGCGA GACTAACTTT GAGAGTGTA CANTTTTGAN GAAAACATTG 120
AATGTTTTGC AAATGAAGGG GCTTCACGGA ATGTTACANT GNTACTAATA TAATTGGGCT 180
TTNNTNATGC AAATNGTTAA CACCAGCTAT TAAATATAT TTNGTAAA 229

SEQ ID NO:3706

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04363

SEQUENCE DESCRIPTION:

GATCGCTACC CACCTTCCTT CCATGGTTCC CACCCTCCAC GTTATTTTCC CTTTCTGCAG 60
CGGTTGCACT ACAGGTAGCT ACTGTGTATT ATGGACAAAT GAGAAATGAA TTCTTTTCT 120
GGCTGTCCAT CTATTTTATT TCAAATAAGG AAAAGTGTAT TTGGATTTTG TGTAATACA 180
TCTAGTGATG NCATTTTTC AATGTTTNA AAAACCGTGT ACAGTAAA 228

SEQ ID NO:3707

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04364

SEQUENCE DESCRIPTION:

GATCCTCATC CAATTGGTGT TTTTCAGAAG TTTTCCAATA TTATGAATTC TGTGTTGTGG 60
AGAAAAGCAA CCATGCATTT ACTGGTCAAT GCCTTCTGT ATATGTAATT CAATACTTTT 120
ACTTTTAATA TCCTCACCTT ATCTAATCTT TGATTTTGT CATGTAATTT ATTGCTTCAT 180
TAAGGTACT TTTTGTATA CAAAATAAAA GCTGATATCC AAGGCAAA 228

SEQ ID NO:3708

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04365

SEQUENCE DESCRIPTION:

GATCTATGAA AATNTGTTTT GACCAAACTT AGTATTAGGC AGGTACACAG ATAAGATTTT 60
CCATTCTNAA CATTCTCACT GTAATGCACG ACATTTGANG CACCTGNATG TGCTATCAAT 120
CAGGTGGGAA ATTTAGCATT ATATATTGGA AGCATTGAGA AACATTGGTC TNTCATTCT 180
ATTNNNTTTT NCCCCTCTN TCCTCCTCCT GCCCCACANT ATATNN 226

SEQ ID NO:3709

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04366

SEQUENCE DESCRIPTION:

GATCCTGAGA GCTTTGAGAG GGTGTTGCCA GTTTTAAGCT GAGATGGCCC ATTTGGAGCC 60
TTACAGAACT AGACCAGAAG ACATTTGTGG ATAAATCTGA ACTCACTTCC TGTGTGTAAC 120
TTCTAACTTC ACTGGTTCCT CCCATCTGAA TTGGCCACAT GCTTGCTGAA GAGACTTGT 180
TTCTTCTTCT AAGACAGTGG TTTGTTTTT TGGGTTTTT TAAA 224

SEQ ID NO:3710

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04368

SEQUENCE DESCRIPTION:

GATCTGGGCA GAATCCGCCA AGCGGCTGGG CCCAGGCTGT GGCATGATGN ACGGAGNAAN 60
GAAGCACCTG GACTTCTAGG GATTCCCTCT TAGTCGCTGC ATGCAGAATT CTATGACACT 120
CTAATNATGA TTGCTAATAG CTTATGTAAA TATTTNNNTT AACAATTGG NCCTNCACTC 180
CTTNAAAAAC ACAAGGATTA TAAAATGGGT GCCNGCATTT NTN 223

SEQ ID NO:3711

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04369

SEQUENCE DESCRIPTION:

GATCGTATTC NTNATAAACT ATTACCAGTA CAGTAGCTAG TAGATATNNT GTGACTGCCT 60
CATTGTTTAT CTGCTGCTT TGGTCCCTAT GGCTCTAGTA TGAACATTCT CGTGTCTTCT 120
GTGGAAATGA TTTCTGTGTT ATAGTNCAN CTTNGGTAGA GGTGGGGATG ATTGTATTTT 180
GTTTtagtg acatcattct caactnttag aaatactggt n 221

SEQ ID NO:3712

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04370

SEQUENCE DESCRIPTION:

GATCAGTTTG CGAGTTTTGA TGAGNTTGT AAGGTTTNTN TTTTACAAAC TATGAATCAG 60
CAAATNTTTA AGATTGTACC ACATAGCAAA CATACAGCTG TTGAAAAATA ATGTATATAA 120
AATGCATATA ATAAATATTA AATNGTGTA CTGTATGTTA CTGTTGGCTA CATCATTTTG 180
TGTTGAATAA TAAAGTGCAA TACNNCCTT CTCCATAAA 219

SEQ ID NO:3713

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04371

SEQUENCE DESCRIPTION:

GATCATTCTG TATATACATA TTTTAAATTA TGCAAGCAAA CTAGGAGGAG AATGTNCAAT 60
 TTTAAGGGAT ACCTAATTC CNTTCGGTTA GGGGATATTT TCCANCCTCT TGCTTTATAC 120
 TCTGATATGG GGTGTNTTTA TGANCTTTTT AATGTTATTT ANTCATGCAG ATTTCCAATC 180
 ANTGTATTGC NCATTCCTG ACAAANGGG NAAN 214

SEQ ID NO:3714

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04372

SEQUENCE DESCRIPTION:

GATCCAAAAN ATAAACTTG AAGCTATTCT GGAAC TAACA TGGAAAAATG AAATGGCTAT 60
 TGTTTAAAAA AATGATAGAA ATACATTGTT GATGGGATAT GAGTTAAGTT TATTTTCTAC 120
 AAACCTGTAA TTGATGACGG CATGGATAAT ATCTTCATGT TTCTGACNAG TAATCTGTAT 180
 GTGGGGGGAG GGGATAATAA ATATTCTAA CCAA 215

SEQ ID NO:3715

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04373

SEQUENCE DESCRIPTION:

GATCAAAAGT GAACACCCTG GCCTATCCAT TGGGGATACT GCAAAGAAAT TGGGTGAAAT 60
 GTGGTCTGAG CAGTCAGCCA AAGATAAACA ACCATATGAA CAGAAAGCAG CTAAGCTAAA 120
 GGAGAAATAT GAAAAGGATA TTGCTGCATA TCGTGCCAAG GGCAAANTG AAGCAGGAAA 180
 GAAGGGCCCT GGCAGGCCAA CAGGCTCAAN GNAGAAGNAC GANCCAGNNG ATGAGGAGGA 240
 GGAGGAGGAA GANGNAGATG AAGATGAGGA GGAAGAGGNT GAAGATGAAG AATAATTGGC 300
 TATCCTTTAA ATGATGCGTG TGGAATGTGT GTACN 335

SEQ ID NO:3716

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04374

SEQUENCE DESCRIPTION:

GATCAAAATGT GCTGCAGCTT TTGCAGAAAA CAACTCAGAA ACACAAAACC CCCCACAGC 60
 TCAATTATTA TTTTTCATAT GTTTTCCTAC AAGAGCCAAG TAGCACCATG TACAGAAGAC 120
 GCCTTTTTTT TTGGAATATT GAAATCGTTC TGCATGTAAA ATATGGGATA ATGACCTGTT 180
 TATATTAAAA TTCTGATTAA ATTATCTGAA A 211

SEQ ID NO:3717

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04375

SEQUENCE DESCRIPTION:

```
GATCAAGAAT TCTACCATCC CTGGGGTCTT TGTGTATAAA CAATGTATAA TACCAGGTAG 60
ACTCAGTCTT TAAGATATTA GACAGTTTTT TTAGTCCATG GGNTNNNNAA TATAAACATT 120
AACTTTCCTA TAAGANTATT TTGGCTTTGT AATCTATAGC CTCAAATTGG TATTATTAT 180
GGNTTCACTA GACAAACAGC TGTTTCCTTA TTGTNTTTN NCTTTAGTGT TTCTGATTG 240
CTATCAGTAG CTGTTTTTAA AGCCGNCCAA GGNAATANT TATTGCAGT TTTTGAAGT 300
CACTTTTGA GCCCTCATNC AAGCTCTCAT TGTGGNTGGG GAGGGATACC NTTTTGGTT 360
GTAAAAGGC CTATNATTGG TTAAAGGGCN 390
```

SEQ ID NO:3718

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04377

SEQUENCE DESCRIPTION:

```
GATCTTAGAG CTGAGGAATT GGCCTCCCAA TCCGAACAGG TGTATAATC CTTTCTNAAT 60
AGGTTGTGCT GTGGACCCAA TGTNAGGGCT GTNCTGGTGT AAATGGTGAC ATATTGAGCT 120
GGGGGGATGC TTTCGGGGTG GGGGGACTGG TTCCATTCCA TCAAAAGGCC CTCTTGAGAG 180
TCTATCCNGG GNCCCATTTG TTNAATTTAA CAGGCCAGNA AAGANGGTTG NTNNN 235
```

SEQ ID NO:3719

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04378

SEQUENCE DESCRIPTION:

```
GATCTCCTGA GCTCAGGCAA TCCGCCCACC TCGGCCTGTC AAAGTGCTAN GATTACAGGT 60
GTGAGCCACC ATGGGTGGCA TCTTTAATAT AGATTTATAA GGCCCCNNTG TTATATATTT 120
NNAAAAATTC AAATTAAAAC TANATCCCA AATGTCCNT TTATTAATGA AGTATTTGT 180
CANATGGATG TTTTAAAGCT GTGTATGTN 209
```

SEQ ID NO:3720

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04379

SEQUENCE DESCRIPTION:

```
GATCTAGGAT TACTCTGGAC CTCATTGGG TGTATGAGT ATCCCACGAA GGCCAGACGC 60
TGATTTNATT TNCTCATTC CACAGATTGA CAAGGATAAG TCAGNNGTTT GTAAACTCTA 120
GGTAGCAGAT GAGAAATAAT TCACTTAATA TCAGAAATAT TTNCCAAACA CTTTCCTTNA 180
TTTTTCCTTC TGANTAAATA GANANCCNN 209
```

SEQ ID NO:3721

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04380

SEQUENCE DESCRIPTION:

GATCCAAGGA ACGTTTGGGG TTTCCTAGGT GGGCCACATC CAATCAGTGG AAGGTCTTAA 60
GAGCAAAANC TGAGGTTCTT CAGAGAAGAA GGAAATGTTT TAAGACTTCA GCATCAATTC 120
CTGCCTGAGT TTCTAGCCTG CTGGCCTGCT CTACAAATTT CAAGCTTGCT AGCCCTCACA 180
NTCACATGAA TAAATTCCTT AAAATAAA 208

SEQ ID NO:3722

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04381

SEQUENCE DESCRIPTION:

GATCCTTTCC CCATGGACAG TGACAGAGCA ACTGGGCCGC AATGGCATAG GCAGAAGAAA 60
ATNTAATCAC TCTGGGGGTG ANTGGTGGTT AAAACGACTC ATGTAATTAT TTGGATTGTA 120
ATTCNTTAC ACATATTNTT TTGCTTAACC CAGCATGTNA GATATATNAT NTAATCTAAT 180
AAAAGATACA AACTTATGGG CACACAAA 208

SEQ ID NO:3723

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04382

SEQUENCE DESCRIPTION:

GATCACCTG GAGCTGTGGC TTCCCCGAGC AGCTGAGAGT GAAAGGAGGC AGTTCCTTTA 60
CTGTGAGCTC TCACGGCAGC GTGCTCACGC CCCACACAGG GGCTGCCTTC ACTCGGCTTC 120
AGCAGCNGTT GACTTTTAAA TCATAAAAAG CCGCTCTATA TACAGTTTAC TCTGTTGCTA 180
GAAGGCAGTG GAACATAGGT ATTTAAA 207

SEQ ID NO:3724

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04383

SEQUENCE DESCRIPTION:

GATCCACGTA CAGTTTGGAT TTTCCTTCTA GCCTTCATGT GTGGCCCAAG CATCTATTTC 60
AGACTGTCAT GGTGGCATT GTTCTCTGAG GTTCTGTCTT CCCTTCGTGT TTCTATGAGC 120
TTTAATTTGT ATGGTTCTTG TTCTGTAAAT GCCACTAGGG ACTATGTATT CCTGATTCCA 180
CCATGACAGC TACAGTAAAA CAGTAAA 207

SEQ ID NO:3725

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04384

SEQUENCE DESCRIPTION:

GATCAAGCAG GCACTTCAAG CCTCAATAGG ACCAAGGTGC TGGGGTGTTT CCCTCCCAAC 60
CTAGTGTTCAG AGCATGGCTT CCTGGCGGCC AGGNCTTGCC TCCNTGGACT ANCTGGGGGG 120
TTCCGGGTCT CAAGAAGACA AGGGTGCTGG NCCTCCCTAA GCCAAGGAGA GGANTAAAGA 180
CAAAAAGCTN AAAAAAAG GAAA 204

SEQ ID NO:3726

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04385

SEQUENCE DESCRIPTION:

GATCTCGAAC TGTACCAAAA TACATGGAGA CTAACAAACA GAACCACATG GAACTTTCAA 60
ACTGAAAAAA AAATTTGTCA CAAAACTTT GTTGTATAG TTAAGTTGAT TGTAGATGGT 120
AATTGAATAT ACTCCTTTGA AAATATTTCA TCAAGTATGT TTCCTGCTCA TTGTGATACA 180
TTAAAAAAA ANTATGGGCA AA 202

SEQ ID NO:3727

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04386

SEQUENCE DESCRIPTION:

GATCCAGAAG GCTTACGAGT ATTTTATTAT CTTGTCCAGG ACCTGAAGTG TTTGGTCTTC 60
AGTCTTATTG GATTACACTT CAAGATTAAA CCAATCTAGA CTGAATATTG GTGTGGACAT 120
GGGGGGTGGG TGGGAGTAGA AAATTTTGTG TATATCAGGG CAGTATTTT TTATGAACTA 180
TAAATGATTG TCTTTAATAA ATATGTGATA AAATCCAAA 219

SEQ ID NO:3728

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04387

SEQUENCE DESCRIPTION:

GATCATATTT AGAGGATATA ACAATTAGAA ATCTAGAAAA TAATTATCAC TTTNATAAAA 60
TNTNAGTCA ACTGTACAAA TAATTACATA AAACATCAAT TAATNATGCT TAAAAATCAC 120
TAATNTTCAT AATATATAAT CACTATTTGT AATCAAAAAGT TTAATTTTAT NTAAAAAAT 180
AAAAAATGCT TACTTGGAAG 200

SEQ ID NO:3729

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04388

SEQUENCE DESCRIPTION:

GATCAGCCGA ACTCTAGGGA CTGGGTGTG CTGGAAGGC ATCCATACCT GCATTTTGCA 60
TTCTTCGTAT GTAATCATAT TGCCAAAGAC AAACATTTTC ATCATTATT GTAAATAACA 120
CTTTCCCCA GACCTACCAT AAAGTTTCTG TGATGTATTG TCTCCAGTT GCAATAAAAA 180
TTACTGAGTT GCATCAA 198

SEQ ID NO:3730

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04389

SEQUENCE DESCRIPTION:

GATCTAAGAT TAATTCCTCA ACTGTTTGC ACTCAACAAA GACATACCTC TGAGTTGGCA 60
ACCAGCAGGG TGGATAACGG GCCAGTGGTG ATAAAATCAA AGAATAGGTA ATGAAACAAT 120
CATCCAGTTA ACAATCAGCA AGGTTCTTCA GAGCCTAATT AATGTTTAAT TCTAAATAAA 180
TTGCAACAAT TAAGAAA 197

SEQ ID NO:3731

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04390

SEQUENCE DESCRIPTION:

GATCCAAAAG TTAAATTAG TGCATACATC ATGTCATTTT ACCTCCTGTT CCTAGGAACT 60
CTCCATTCCC AAGCATTGCC AGTGTTTCC AGATAATCTT AGCTGTTGTC TTGTGCTGTG 120
GAAATGGAAG AAACCATCTT CACAGACTGT AGGAGAATTC AACATATAAT TTCTTAATAA 180
ATACTGTTTC TTTTAAA 197

SEQ ID NO:3732

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04391

SEQUENCE DESCRIPTION:

GATCTAAGGG AGTCCACTAT CTGTGCAATT GTATTTGGNT TTTTTTGCA CTGTTTCAAT 60
GCTGGTAATT GAAACCAATT TAATATATTT GGTGTATTC ACTTTATATG TCCTTCCAAA 120
AATNTTGTG TGTACAAACC ATGNNNNNGA ATGTTGGCTT CCAAGTTTTT AAATAAGAAA 180
CTTTTGTAT TTAAT 195

SEQ ID NO:3733

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04392

SEQUENCE DESCRIPTION:

GATCCACGGA GCAGAGGTCA TCTGTCCCA GCTTGGCCCA CTGAGGCCAG CATGGNTGGG 60
CCCAGGATGC TTGTCTCTCA GCTCCCATCC TGTGTACTTC CACATTGGTT TAACCAGAGG 120
AAAACCGAAA TCTACAATTG TNATAAACAC ATTTAAATGT GCGTAGAATC AGCCATACAA 180
ATTGTGAAAC ATAAA 195

SEQ ID NO:3734

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04393

SEQUENCE DESCRIPTION:

GATCAACTCC CCCAAGGCC GAAAGGTGCT GCATACCACG TACCANAGCC AGGAGCGTGG 60
CACACACAGC CTGGACATCA AGTGGTGAAG TNAGGCCAGG GNCTTCCAGC TGCTCTTGGG 120
GCCAGAGCCA AGAGCCTCTN AGTAGAGGGA GGGGCTGCC TGAGTGGAGT ATTAAAGACA 180
CTTAAGAAAA CCAAA 195

SEQ ID NO:3735

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04394

SEQUENCE DESCRIPTION:

GATCCTGTGC CCTAGGAGCA CCTAGGAAGA CTTGCTCCAT CTCGCCCGC ATATCTGGGG 60
CACCAAGAGA GACAGAGTCG TGAGCCAGGC TCGCCTCATT CCTCGTCTTG GGAGAACCGG 120
ACCAACTTCC CCAAAAGGCC TTGCCGTGCA GAATTGGCCT GGTTTAATAA AGAACAGACC 180
TGNCCCAAGN AAA 193

SEQ ID NO:3736

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04395

SEQUENCE DESCRIPTION:

GATCTGCCCC TCCCAGAAC AATCTGGATT TCACGGAGAC AGCAACCAGA AGTTAAACCA 60
TGTGACTAAA AATGCATCTG GCTACTTTTT CATGTATGTA TGAGACAGAA ACTAATCCTT 120
ACTATCCTAT TAGGATACCA CTTTTCATTG CAAAGTTTGT GTCAATAAAG TCATTAATTT 180
TAAACATAAA 190

SEQ ID NO:3737

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04396

SEQUENCE DESCRIPTION:

GATCATAAGT AGTGGAGGAT TTAAACCAG GCTGGCTGGC TCTTAAGGCC TATGCTCTTA 60
ATTNACCATG TNGAATTAAT TTACCATATT GAATTACACT TATGTNCACC AAGTNAGGCA 120
TTTNGGCAGC CATTGTTTAC GTTTTANTTT TGGAATAATT TAGAAAAGTT ACCAGAGTAA 180
TATGAAAGCN 190

SEQ ID NO:3738

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04397

SEQUENCE DESCRIPTION:

GATCCTCCGC ATCCCCTGCG AGGAAGAAGA TGTGGAGATG AGTGAGGACG CCTACACGGT 60
GCTGACCCGC ATCGGGCTGG AGACGTCAC GCGCTACGCA NNNNNGCTCA TCACAGCTGC 120
CAGCTTGGTG TGCCGGAAAC GCAAGGGTAC AGAAGTGCAG GTGGATGACA TCAAGCGGGT 180
CTNNNNN 187

SEQ ID NO:3739

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04398

SEQUENCE DESCRIPTION:

GATCTGCCCC TAAACTTGAA ATACCTCCTG CTCCTTTGGG GACTGGNCTT TGCNAAGAGC 60
ACCTGGGGAG GAGACTGGTG CTAAC TAAGC CAGTAAGTAA GTCCACTCTT TGGNTGCAGC 120
TGGTGAAGG TCTACCCATA CCTTTTATT TNCAGTGTTT AATAAAANTC CAGTGNGCAA 180
AGACAAA 187

SEQ ID NO:3740

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04399

SEQUENCE DESCRIPTION:

GATCAAGTTC TCGNCTGAN GAGGCTGCCA AAAGTCAAAA GNGGGGCCTG GGAAGGCAAG 60
CTCATTCCTC ACAACGGCCT TTCCAGGCC NGTTTTTCCC TTCCGGCAGC CTCTTGGCCT 120
CTAATTTGTT TATCTNTNGT GTATAATCC CAAAATATGG AATTTTGGAA TATTTCCACC 180
ATTAAA 186

SEQ ID NO:3741

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04400

SEQUENCE DESCRIPTION:

GATCTGCCTT CCTGCTGAAA CTTGTTCCAC CTCAGTCCCC TCATCTGTCA CACGCATGTG 60
GGGTGGAGTA GGGAGATGCG GGGAGCAGGG TGGGCAGGAA TACTGTTATC TATGTNACGG 120
GGCAGTCGTG AGGCTGAGAT GAGAATGCGG ATTAAAATGC CTGGCGTGCT CACCGTAACA 180
CCAAA 185

SEQ ID NO:3742

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04401

SEQUENCE DESCRIPTION:

GATCCCATCT NTACAANAAA CTTAAAAATT AGCCAGGCAT GATGGCACAT TCCTGTAGTC 60
CTAGTACTC AGGAGGCTAA GGTAGGAGGA TTGCCTGAGC CCAGGAGTTC AAGGCTGCAG 120
TGAGCTAAGA ACGTGCCAGT ACACTCCANC NNGAGCCACA AAGTGAGACC CTGTCTCGCA 180
AA 182

SEQ ID NO:3743

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04402

SEQUENCE DESCRIPTION:

GATCAAAGTG GTAAAGACAA TGTAATAATT AACATTTTAA TACTGATGTT GTACACTGTT 60
TNTACTTAAC ATTTTGGGAA GTAAGTGCCT CTGACTTCAA CTCAAGANAA CACTTTTTTG 120
TTGCTAATGT AATCGGTTTT NGTAATGGCG TCAGAAATAA AAGGATGCTT ATNATTCAA 180

SEQ ID NO:3744

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04403

SEQUENCE DESCRIPTION:

GATCTNCGGA ATGATGAGCA CACAAGGCGG GAGCTAGCCA AGATGAAGCA GGNGCCGGTG 60
AACCTGAAGA AGGCAGAGAT ATGGCAAACA GGATTNGCGC TTTTGGNNAC ATGGAGTGTT 120
CAGCAAAGAC CAAAGATGGA GTGAGAGAGG TTTTNNAAAT GGCTACGNGA NCTGCTCTN 179

SEQ ID NO:3745

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04404

SEQUENCE DESCRIPTION:

GATCTGAGTG CCTCAAGATG GTTTTCAAAA AAATTTTTTT AAAGAAAATA ATTGTATACG 60

TGTC AACACA GCTGGCTGGA TGATTGGGAC TTAAAAACGA CCCTCTTTCA GGTGGATTCA 120
GAGACCTGTC CTGTATATAA CAGCACTGTA GCAATAAACG TGACATTTA TAACGAAA 178

SEQ ID NO:3746

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04405

SEQUENCE DESCRIPTION:

GATCCGAGTT CCTCACC GCG GGC CGGGATG TGACCACCCT NTTCAGAGGT TGGACCC CAG 60
GCTTCAAGCA CCGAGTGAGG GGTCTGTTGG GCCCCTGGG AGAGTCTCTG GTGTGAAGTG 120
GCTTAGGTCT GGA CTGGTCA GCTGTGGCAC CAGCCGGTCC TGCCACGCT TCAGGATGGC 180
CGGGGGCTGC CCCTGTGGGA GAGTTGCCAA GACTCGGCGA TACCAAGGAT GGAAGCCAGA 240
GGCTGTGGCG AGGGAGAGCC AAGCATATTC CCAGCACCAG GGCCACTGCT GGCACGTCGT 300
AGACATCCAA TAAATATTTT TGGAAGGAGA AA 332

SEQ ID NO:3747

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04406

SEQUENCE DESCRIPTION:

GATCTNNATA CTGTGAATAG CAGAATGTAC AGATGAAGAA TATTA AATN AGGGGCGTCC 60
ACTCCAAAAC ATATCACCAG AGTGACAACT TCAGCCCTCA GCCTCTGCAA TCCATATATA 120
TNCTGGTCTT GGGAGTCCAT AGAATACTGT TTCCTTCTAA TAAAGGTTTC AAACAAA 177

SEQ ID NO:3748

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04407

SEQUENCE DESCRIPTION:

GATCAATAAT AGTACCTTN ATTATACATT TATTATTGTN TCTCTCTCTG ATGTACTGTG 60
GATTGTACAT TTAAC TTTGG AATGGCTTG TAATAATCAG TCTTAAGAAA ATNTTGACAA 120
GCTCTGGTTG CTTATTTTAA GAAAATAAGG ACATTTAATA ATAATAAAAA AAAAGGGATT 180
AATAAA 186

SEQ ID NO:3749

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04408

SEQUENCE DESCRIPTION:

GATCCCCAGT GGATGCCTGA AACCGCAGAT AGTACTGAAC CTTATATATA CTGTTTGT TT 60
TCCTATGCAT ACATATCCCT ATGATAAAGT TTATGAATTT GGCAC TTAAC AGCAGAACTA 120

ATAAGATGAA AGAGTTGTAA CAATATACTC TAATAAAAGT NATTTAAAAT GTAAA 175

SEQ ID NO:3750

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04409

SEQUENCE DESCRIPTION:

GATCAACAAT GAGCAGAAAC ATCATCAGTC CTTCCCAAGG ACCATGGCGT TTAATGTCTT 60
GGGCACCCCT TGGAAATCAC AGAAAGTCAG CNGTACTGGC CGTGTGGAAC TTNCATCCCA 120
AGACCTACTT TNCAACTGAG TAAGAAGGTC ATTGTGCCCN CTGCATTNNN NN 172

SEQ ID NO:3751

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04410

SEQUENCE DESCRIPTION:

GATCAAAAAA TGTTTATNCT GAATTCTNTA ATTTAAAAA NTCATACCTA TNAGGTGTGC 60
TACAGGAATT CAGATACAAT AAGTTGCATA TAAAACCCGA CCTCANN 107

SEQ ID NO:3752

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04411

SEQUENCE DESCRIPTION:

GATCTGACCA ACAAGGCCAC AGGAAAATTA ATAGCACAAG GAAGACACAC AAAACACCTG 60
GGAAACTGAG AGAACAGCAG AATGACCTAA AGAAACCCAA CAATGAATAT CAAGTATAGA 120
TTTGACTCAA ACAATTGTAA TTTTGTAAAT AAACCTAGCAA AACCAGAAA 169

SEQ ID NO:3753

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04412

SEQUENCE DESCRIPTION:

GATCTNCTTG GCCAGCAGGA CGTCCAAGGA CCAGAGCCTG TGTCATGTCC TNGAACAGGT 60
NTGCGGCGTC CTCAAGCAGG GGAGCTGAGC CTTCCANAGG CAGGGTGGGC TCCAGTTGTC 120
TTGAGGGTCC GGATGGGCTC AGGTAATAAA GAAACGGAAG CAGCAAA 167

SEQ ID NO:3754

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04414

SEQUENCE DESCRIPTION:

GATCTGGGCT GTGGGGCCCT TGGGCCACGC TCTTGAGGAA GCCCAGGCTC GGAGGACCCT 60
 GGAAACAGA CGGGTCTGAG ACTGAAATTG TTTTACCAAC TCCCANGGTG GACTTCAATG 120
 TGTGTATTG TGTAATGAG TAAACATTT TATTTCTTT TAGGTAAA 168

SEQ ID NO:3755

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04415

SEQUENCE DESCRIPTION:

GATCTATGAT TTATNATGTC TTAATAGACC CTAAATTGTT CTTTAATTAC AAGAGTGGCA 60
 GTCTCTGAAG TCATTTGTGA GCTTGTATGA CTTTGTATT TAGCAATGTT GCATGCTCAC 120
 ATAATTGAAA ATTAAAGTA ACACATTTT CTGAAATGTA AA 162

SEQ ID NO:3756

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04416

SEQUENCE DESCRIPTION:

GATCAAAACA TAATTGTTT AATTCTACAG CTGTAGGAGC TTTGTATTGC TGAAC TTCA 60
 TCTGGAAAAG TTCACAGTG ACATTTTAA AAGAGAATTT TTTTATCTGC CGAATTCTAC 120
 CAGTGTAACC TTTTNTTAA ATAAACAATA GTTTNTCAA A 161

SEQ ID NO:3757

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04417

SEQUENCE DESCRIPTION:

GATCTCAAGA AGCCCCACAT CTTCTAAGG GGCCCCATGG CCTNNTTGG GNGCAGGGTA 60
 GGTCTGGGG CACTGTGGGC CGCCTGCCTG CTGATGTGGG CTCTAGGCCA GCTTGTGTC 120
 ACGTACGTGG TGTGAAATAA AGCCCAAGCA CTNGNTGAAA 160

SEQ ID NO:3758

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04418

SEQUENCE DESCRIPTION:

GATCCTGGGT GACTTTGGGT GCACAGGGTG ACCGAGCATT TCTGCCCTG TGAATGTGGC 60
 ACTAACACTG TGCACGTCT CCACCAAANA AGGTTCCAC TGAGTTTCTT CTCATGTTAC 120
 TGGGTTTGT AATGAATAA CACATTTTAA CTA CTCTAAA 160

SEQ ID NO:3759

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04419

SEQUENCE DESCRIPTION:

GATCAATAAG AAGANCCTAG TCTAGAGACA ATGATGCTAG TTTGCATATG TTTTCCTATG 60
CAATAGTTGT TTTCCAGTN ATNCAAAGCA GCTTCTATA TGTAGAGATG CAAATNATTA 120
AGTTGTTNCC AATACAATAA ATAAAAGCAT CNGTTNTN 158

SEQ ID NO:3760

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04420

SEQUENCE DESCRIPTION:

GATCAGATTT GTAATTTNCC TGTATTAAAT GCCTAGAACT CTACAGTCAA CAGATGGCGC 60
TCTAGTTCCA ATTGTNACAG AAGTNCCTG CCCATCCGCA AGCAAAGCGT TGTTTTCATC 120
AGTGAAAAGA GAATAANCAC TGTGCTTTAA CTTTTAAA 158

SEQ ID NO:3761

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04421

SEQUENCE DESCRIPTION:

GATCTGTATG GTACTATAAA ATACTTATTT NATAATTCTG TAACCGTATG GCAGTGTAT 60
GCCAAAAATG TATAAAGAGC AATAGTTTTT GTTGCTTACT GCTGTATTTT AAAATATTGT 120
TTCTAAAATA ATAGNGTTAG AGTTCCTTTT GAGTAATTAT TTTAAGGAC TATTGCCAAA 180
TATACATCCT GTAAACCTA ATAAAAGCCA CTCCATCTTT NGGTAACCAT TTAGCATT 240
GTGCTTGGNG TACATNNTGG GTGGTTTTTG CNCGNTTAAN NANNTTANN 290

SEQ ID NO:3762

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04422

SEQUENCE DESCRIPTION:

GATCCCACCC TCTNTCCAC CTGGGCGNACT GACGCTCTGG CCTCTNTGGN AATNACACTG 60
GGCTGACCTG GCATTGGGAG AGGGAGGGAG GAAGGAAGGG AGGGAGGGGC TGGAAGATAC 120
TGAAGGATTC CTTTTTNAAG GGTTTTTTTT ATTGTAAA 158

SEQ ID NO:3763

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04423

SEQUENCE DESCRIPTION:

GATCCAAGTC CCCTGCCTGG TCCCCACAA GGNTCCCAT CCAGGCCCCC TCTGCCCTGC 60
CCCTTGATGAT GGACCATGGT CGTGAGGAAG GGCTCATGCC CCTTATTAT GGAACCATT 120
TCATTCTAAC AGAATAAAC GAGAAGGAAA CCAGAAA 157

SEQ ID NO:3764

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04424

SEQUENCE DESCRIPTION:

GATCATTTN CATCTGNCA TAGCGTTTCT NCAGAAGGAA CAGTAGTCTC AAATCTTTCC 60
TCATAATGAT AACAAAATGC TCTTGCATGA TTTNTAACA ATATATTAA NCAGGAAGTT 120
GTCCTGATA TACTTTATTA AAAGGATTTT AATCAAA 157

SEQ ID NO:3765

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04425

SEQUENCE DESCRIPTION:

GATCGTGTGT TGCCATTNG TCTGGCTGTG GCCCCTCCTT CTCCCCTCCA GACCCCTACC 60
CTTCCCAAA CCCTTCGGTA TTGTNCAAAG AACCCCTC CCAAGGAAG AACAAATATN 120
ATTCTCTCT CCCAAATAAA CTCCTTAACC ACCTAGTCAA A 161

SEQ ID NO:3766

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04426

SEQUENCE DESCRIPTION:

GATCTTGAGG TTGTTTGATG CTTTAAATTT TTNAATTATA TTATTNNNTA GGTGTTTATT 60
GGTACATTGC AGTTTTTTT TTNAATTTA AAAATTTCTG TAAACTTTG TTTCAAGTA 120
ATCTGACAGC ATTAAATATT GCATTAAAA ATTAAA 156

SEQ ID NO:3767

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04427

SEQUENCE DESCRIPTION:

GATCCGCAAG AACAAAGTACC GCCCGACCTG CGCNGGCAGC CATCCGCAGG CCAGCGCATC 60

CTGCGACAGA AGCCTGTAAT GGTAAGAGAA GCGACCCGCC CACCAAGAGT CCTGAGCCCC 120
TGCCCAGAGA ATAAAGCAGC TGGCTTTCTA CCAAA 155

SEQ ID NO:3768

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04428

SEQUENCE DESCRIPTION:

GATCCCAAAA CATCATNAGG CATTTTNAAG TTGGTCACGT CGCAAGTCCG ATATCACAAC 60
TTAATTGTAA AAGGAGGGAA TCTGGTTTTG TNACTTGGCA GTGGTTTTTT CTCACCCTTC 120
CTTTTAAACA ATAAAATCCC ATTTGGGTCT TGAAA 155

SEQ ID NO:3769

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04429

SEQUENCE DESCRIPTION:

GATCTATTTG ATAATTTTNT GGGTTTTTTG AAGAATTAAT GAGCATGTAC ATAGAAATAG 60
TGACTGCTTG ANTACTGTAT TTNCTTGCAC TCTTTCAGTA CATCAAGATT CCTGTATATN 120
TNAGNGTATA ATAAAACACA GATGTGAGTT GTAAA 155

SEQ ID NO:3770

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04430

SEQUENCE DESCRIPTION:

GATCGGCACA AGATGCTCAG CTAGATGGGC TGGTGTGGTT GGGTCAAGNN CCCAACACCA 60
TGGCTGCCAG CTTCCAGGCT GGACAAAGCA GGGGGCTACT TCTCCCTTCC CTCGGTTCCA 120
GTCTTCCCTT TAAAAGCCTG TGGCATTITT AAA 153

SEQ ID NO:3771

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04431

SEQUENCE DESCRIPTION:

GATCTGAAGT GTGAGTAGAA TGTATTCAGC TGTTTAACAT GTAGTTTAGA TATTCAAAAG 60
TATGCATGTA GAGTTTAAAG AATATGTAA AANTNATTAA TTTTAATATT TTGTTGGAA 120
AAGCATGTTA TAATATAATG TTTTCACTAT AAA 153

SEQ ID NO:3772

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04432

SEQUENCE DESCRIPTION:

GATCTGGNAC TCCTTGTAGT AAGCTGTTTT CTGCTCAGCC ACTGGGCTCT TTCACTTTTT 60
TAGTTCTTAA AAATTTATTT TTAAGTTCTA AAATAAAATA AAAATAAGTT CTTAAATTT 120
ATTTTTTCC NGAATAAATT GTATTTGGTA AA 152

SEQ ID NO:3773

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04433

SEQUENCE DESCRIPTION:

GATCGCAAAT CACAGCTCAG ACAGCCAGCT CTTAAGTGAG ACCTGAGTGC CAGAGAGGGG 60
TGGATACAAG GCCAACAGTT ACTAAATGAA TGAAAATTGT GATTCCGATG AAGCCTGCCA 120
GAGAAATAAA GCATTTTTTA AAAGATGGAA A 151

SEQ ID NO:3774

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04434

SEQUENCE DESCRIPTION:

GATCTAGCCA TAAACTAGT AATCTTGAAT TCCTCTTGAG CTGGATGGTG ATTAGCCATT 60
GTGAAAACAG ATTATATGGA AATTGTGCAT ATTGCTAAAT TTTAAACAT GGATTTATCA 120
ACTGATAATA AAATATATCT TACAAGATAA A 151

SEQ ID NO:3775

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04435

SEQUENCE DESCRIPTION:

GATCTTTAGC TGCCTTTGTA TCAACTTCTN TGGAGCTTAT GTGATTTTCC AGAAAATATC 60
CAAGGCATAG TTTTGTCCCT AAGTCCCATG AATATGTAAT ATNTNGTGTC TCTCTATTAA 120
AATAGCACTT TTNGTGCATN CCATTAACAA A 151

SEQ ID NO:3776

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04436

SEQUENCE DESCRIPTION:

GATCCATCAA AAGGTTCTTT TTNATAATC CCTTTTGAAA ATAATAATCA AAGGAAGAGA 60

TGTGGTGT TT GGTCATGTGG AAAACTCAAT GTATAATTAA GACGTCTNTC AAAAATCCGA 120
 CAAATAAAAT NAAGCTGGAA CGAAGGCAAA 150

SEQ ID NO:3777

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04437

SEQUENCE DESCRIPTION:

GATCCNAAAG CACACCAGGA AGATGCTAAA GATGCTTATA CTTTCCTCA AGAATTGAAA 60
 GAAAAACCCA AAGAAGAGCC AGGAATACCA GCAATTCTGA ATGAGAGTCA TCCAGAAANN 120
 NNNGTCTATA GTTATGTTT GTTCNN 146

SEQ ID NO:3778

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04439

SEQUENCE DESCRIPTION:

GATCAGAGAA GTTTATGCTC ACTGTCTGAT GCAACTNTCT GGTCTATTTG TNAGTAAATA 60
 ACAGGGAAAT CATTTTCACT TTTTGTAAA AATAAGGTAT TTACAAGCAT ACCTTGTAGT 120
 TATTGTGGGT TCAGTTTCAG ACCACTGCAA TAAAGTGAAT ATCTCAAA 168

SEQ ID NO:3779

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04440

SEQUENCE DESCRIPTION:

GATCTGACCC ACCAGTTTGT ACATCACGTC CTGCATGTCC CACACCATT TTTTCATGACC 60
 TTGTAATATA CTGGTCTCTG TGCTATAGTG GAATCTTTGG TTTTGCATCA TAGTAAATA 120
 AAATAAACCC ATCACATTTG GAACATAAA 149

SEQ ID NO:3780

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04441

SEQUENCE DESCRIPTION:

GATCGGGACC TGACCTGGGG CTGGCCTCAG GCCCAGTGC ACGTAACTGC CCTCTGTGGA 60
 AGCCAGCTTA AACCTAGCC CTNTNAGAGC TTCCTGTGCC CAGCAGGAAG GAAGTCAAAT 120
 AAACCACACT GACTACCTGT GAAA 144

SEQ ID NO:3781

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04442

SEQUENCE DESCRIPTION:

GATCTAGGGG GAAAGAGGAG CATTATCAC AAGTTTCCTA GAGAGAGGAG ACAAATCGGT 60
GTGCCATTGA CAACATGAGC CAGGGTAAAG GCACCCTTNN NNNTTACTGA TTTCAAAGAT 120
TAATAAAGTA ATTCTATTTT TAAA 144

SEQ ID NO:3782

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04443

SEQUENCE DESCRIPTION:

GATCTATGAC TCATTTGACA GAGAAGCCAA GGAAAAAAG CTTGCTTGGC CCATTAATC 60
AAATCCACCA AATACTTTTG TCTAAGTTCT CATTCTTTCA ATTGTTATGC ACCAGAGATT 120
AAAAAGCTTT AACTATAAA 139

SEQ ID NO:3783

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04445

SEQUENCE DESCRIPTION:

GATCTGTGTC TTGAAGCAGC TGCCCTCATT CCGACTTCAG AAAATCGAAG CAGCTGGCTC 60
CTCCCCTGT TCTCTCTCCC ACCCTCCCC AAATCTGTTT TCATGTAAAA GACAAATAAA 120
TGATGACTTC CCCCAA 137

SEQ ID NO:3784

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04446

SEQUENCE DESCRIPTION:

GATCAAAATA AAAATGTACA TGACGGGGAA GGGAAAAACC TGTGGAGTT GCTTCAGCC 60
AGCCACGCTC CGGGCCAGCA TGTGGAATC CAGCGTGGAG CAGATGCAGT AAAAATATGG 120
TTGTTTCTG TGTGAAA 137

SEQ ID NO:3785

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04447

SEQUENCE DESCRIPTION:

GATCTCTCTC TCNTTTTACC CCCCTTAGGC TGAGGGTAAA AAGCTGGGAT TGGTAGGCTG 60

GGTCCAGAAC ACTGACCGGG GCACAGTGCA AGGACAATTG CAAGGTCCCN TCTCCAAGGT 120
GCGTCATATG CNGNNNN 137

SEQ ID NO:3786

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04448

SEQUENCE DESCRIPTION:

GATCGGCCAA GTATGCTNTT NTTTAGAGCA ATGTTTTGCC CTAGAGANTT GTAAAATTTA 60
TGTNATGACT CAGTACATAT GTGTTCGTAC ATATATGATN GGAATAAAAT GTTTATGAAA 120
TATTNACTCA TAN 133

SEQ ID NO:3787

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04449

SEQUENCE DESCRIPTION:

GATCTGTGTG ACCTCACCTG CATTTGATTG AAAAAAGTAT GCGCGTAATT GTACCCACCC 60
AGTTCAAACC CGTGTGTAAG GGTCAACTGT ACAAAAAAGT TTGTGAAATA AACGTACTGG 120
AGAATCTTTA AA 132

SEQ ID NO:3788

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04450

SEQUENCE DESCRIPTION:

GATCAGTATT TAANATTATA CCAGTTTNA TTAAACCCCTT TCCCTCCCCG ATAAAGAATG 60
TTCTATTCTT GCCTCCCCTT AAAGGGGAGA CCTCAGAAGT AAAGNAATTT NATGTTGTGT 120
TTTTNTTAAA 130

SEQ ID NO:3789

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04452

SEQUENCE DESCRIPTION:

GATCCCCCTT CACCTTTTGC CATGGTCATA AGCTTCCTNA GGCCTCCCTG GAAGCTGAGC 60
AGATGCCAGC ACCATGCTTC CTGTACATCC TGCAGAACCA TAAGCCAATT AACCTTTTT 120
AATAATAAA 129

SEQ ID NO:3790

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04453

SEQUENCE DESCRIPTION:

GATCCNCCAT GGTGGACACG TCTGTNCTGT ATGTAAAAGG CATTACAAAT GTTTTTTAGC 60
AGATGAGACT TGAAGCCTTT CCACAGTCCT TGTNCTCTGA GATGGCTGTN GAGCTCTGCT 120
CANCTGTTN 129

SEQ ID NO:3791

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04454

SEQUENCE DESCRIPTION:

GATCCCTACC CCTCANCAAC TAGCTCCCCT GTCGGCCAGC TAAGAGAGCT GGGACANTGG 60
AGGCTGGCAG AAGCTGAGAC GTGACTGTCT AGGAGTAACA CTCATTAAAG CTTTCNTTTT 120
GGCAAA 126

SEQ ID NO:3792

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04455

SEQUENCE DESCRIPTION:

GATCTGAAAA AGCAACCCAT TTCCTAAATT CATATTTTNC CTAAACTTT ACTATGTTTT 60
NATTTTAAGA GGTTCCTGT TATATACACT TTNACACAT GCAAATAAAC TTTATACCAA 120
GTGAAA 126

SEQ ID NO:3793

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04456

SEQUENCE DESCRIPTION:

GATCTGTTTA GAAAATACCT TTGAAAACGA GGGTAACTTT AAAAAATGGA AACTTTCAAA 60
TCCATTTATA TTTNNTTAT AANCAAACT TAATTTAAAG TTAAACAAAC TGGCTGAAAA 120
CTCAAA 126

SEQ ID NO:3794

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04457

SEQUENCE DESCRIPTION:

GATCACTGAG CTGCCNTCA AGGGGACCTG GANNCCGGGT CCTGGGGTCA TGCTGCCTCC 60

NAGGCTCCAA GGTGAGGGTC ATCTTCACGA GCAAAGAGAA CCAATAAAGT GACAACGNAC 120
GTCAAA 126

SEQ ID NO:3795

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04460

SEQUENCE DESCRIPTION:

GATCCAGGGC TTTGAGGGC TCTCCTCATT GAGTTCAGAG TCACATATCA GAGGNTTAAA 60
TCCAAAAGAA ATATGCACAC CCCTCTCCTC CCTCCAGTA AAAATAAATC GTCCTCTTG 120
AAA 123

SEQ ID NO:3796

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04462

SEQUENCE DESCRIPTION:

GATCTCTGTG CTGTAAACTA AAACAAATG TGCATTCCTT CCGGGGCCAT CGTCTTTGTT 60
TTCTTTTTTG TCTGAATGA ATTTTAAAG GAAATATATA ATAAAAATGT TAACCAGAAG 120
GTAAA 125

SEQ ID NO:3797

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04463

SEQUENCE DESCRIPTION:

GATCTGGGGG CCCCCCAGC TGGCGGGAAC CCCAAATGGA CACAACTGT ACATTGCCA 60
ATGGGTTTTT TTCAGACCAT GGTTTTACT TGCAAATAAA CCTGAGTTCT TTTCTGAAA 119

SEQ ID NO:3798

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04464

SEQUENCE DESCRIPTION:

GATCTAAAAAN NATACTNTGT TCCCTCATAT GCATGCCCTT CCTTTCTATA TCCTTGACAC 60
CTTACTTTCC CATTGTAACA ATAAAAAAG TATCAATAAA ATAATTATTG GCAAATAAAT 120
TGGTGAGTTG AAA 133

SEQ ID NO:3799

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04465

SEQUENCE DESCRIPTION:

GATCCTGCAG TGATGGAATG TTCTGTCTTG ATTGTAGCAA CACCAATATN CTGATTGTNA 60
TATTATACTA TAGTTTTGCA TAACAGTTAC CATTAAAGGA AATTGGGTAA AAGGCTAAA 119

SEQ ID NO:3800

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04466

SEQUENCE DESCRIPTION:

GATCTCTTAG CAAATAGGAA TCTAGGTGTA GAATTTATAC ACATATATAT TTTTAAAAGT 60
ATAAAAATGA GAAAGTATGT ACAAAAAATC ATCCTAAATC TTAGAAAGGA GACATAAA 118

SEQ ID NO:3801

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04467

SEQUENCE DESCRIPTION:

GATCTGGGAG CCAGCAGCTG GATGCTGTGG CTGGCCAGAN ACACCTCCAG GCTGTGGCCT 60
GGGGGCTGGG GGGAGCCCCA GGCTGAAAAG GGTCCAATTA AAACAAATGG AGCCAAA 117

SEQ ID NO:3802

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04468

SEQUENCE DESCRIPTION:

GATCACATTC CAGCCCTCGC TGCTGGGGTG CACACCCCTT CCTTAGNTGA TGTGCTTGGG 60
AAACTCCCTC CCCCTCCTC CCAAGAGAGA AATAAANCA CCTTCGCCTA GGNCAAA 117

SEQ ID NO:3803

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04469

SEQUENCE DESCRIPTION:

GATCCTGACC TCCTCCAAGG AAGAAATCCA GAAAGCCTTA AGACTAAGAC AACTTGACTC 60
TGCTGATTCT TTTTTCCTTT TTTTITTTNN AAAANAAAAA TACTATNANC TGGAAA 116

SEQ ID NO:3804

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04470

SEQUENCE DESCRIPTION:

GATCAGAACT CCAAAACCAC TCCCACCCCT GAAGGTCGGG AGGGTCTGAG CAGCCCTGGT 60
GGCTNCTTGT GCTCAGGTCC TCAGCTCAT GGGAAATAA AATGGCACCC TGAAA 115

SEQ ID NO:3805

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04471

SEQUENCE DESCRIPTION:

GATCAACATA TTTAGCTTAT ACAGAAATAA AATTAAGTCA ATCCACTCAC AAAGAATTTC 60
TATTTTGTA AATGTAGCT TGTATTTGAG TATAATAAAA TCTGATGTAA GAAA 114

SEQ ID NO:3806

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04472

SEQUENCE DESCRIPTION:

GATCANAGCT NTCCCAAAGA GGGAAAGCGG TGAGGTTTNA GGAGGGGCAG AAGCAGGGCC 60
GGCAAAGNTT GTACCTNCAT AAGGTGGTAT GGGGGGTTGG GGTGAGGCC TGAN 114

SEQ ID NO:3807

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04473

SEQUENCE DESCRIPTION:

GATCGAAAGA CTCAGGGAGA GCGGTCCTNA CCACCTGGAA GTAAGTCCCA CCTGGACCTT 60
ATNAAACTA CTCACTCCAC CTGGGCCCT GCTGAAGCCN NNTTTAAAA TN 112

SEQ ID NO:3808

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04474

SEQUENCE DESCRIPTION:

GATCTGTTTC GTGCATTGGA AGACCCACC CAAGCTTGGC ANACTAANTN TTGTATCCTG 60
GGGCTCCNT CATCTCCAGG GAGACCAAAC CCCGGCCCTA CCAGNGCCCG N 111

SEQ ID NO:3809

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04476

SEQUENCE DESCRIPTION:

GATCAAGACT AACAAATAAC TTTGTGATGA AAATNCTTCA AAAATATAGC TACTCTTTTC 60
AAGTATACCA TTAAAAATAT TTCATCAGGC AGAGCCCTGA CCAGGAAA 108

SEQ ID NO:3810

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04478

SEQUENCE DESCRIPTION:

GATCAAGAA ANTNAGGACA ACGAGAAAGT TAAAAAGTTC GAAAGCAGCA AGATNCCTTT 60
CCCCCTGGT CAATCCTGA CACAAGAGAA GGCAGAGACC CTGAAGCN 108

SEQ ID NO:3811

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04482

SEQUENCE DESCRIPTION:

GATCTTCAAG CAAGGGAAAT GATTCTTAAA AGGATTATCT GAAATTGAAA AACTAGTAAG 60
CAAATAAATG ATAAACATAA GTAAATTAA NCTGTTGTTT GTATAAACA ATTATAATGA 120
NGTGTTTATA AGANATTGTA AACAAATGTA AANCTAAATN ANCATTGTTA TGCAACATTA 180
AA 182

SEQ ID NO:3812

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04483

SEQUENCE DESCRIPTION:

GATCTCCCA AACTAAAAAG TACAGTACTT GGAATTGTGT TCTTTATGGT TGTAGTGTG 60
GTAAAGCACT AATATGCAGA AAATAAAGGA ATTACACAGT GCAAA 105

SEQ ID NO:3813

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04484

SEQUENCE DESCRIPTION:

GATCCNAAGC AGTGAACATG CTGTTAATAC TTGTAAGACT CCTAGCAAAC TGCATTTAAT 60
TTTTTAAATT AGTTTTAGTG TACATAAAGG CATGTNTTTN CCAAA 105

SEQ ID NO:3814

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04485

SEQUENCE DESCRIPTION:

GATCCATGGG ATTNATAATT GAAATAGAGA TTGGAGACCC TCCTATTCAN TTCATAAGCA 60
ATNGCACCAC AGGTCANATG CAGTTATCTN AACTCCAGGA AATTN 105

SEQ ID NO:3815

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04486

SEQUENCE DESCRIPTION:

GATCTTGCTA AATTATTAGT TCTAGTAGCT TTTTGTAGA TTCATTAGGA TTTTNTACAT 60
ACACAATCAT GCTATTTGCA AATAAAATAA TGCTTTTATC CAAA 104

SEQ ID NO:3816

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04487

SEQUENCE DESCRIPTION:

GATCGAGTCC AAGGNAGACT ATGTCCTCTN CTACCAACGN CAGGNCGTGG CGCGACGCCT 60
GCTGTCCCCG GCCGGCTCAT CTGGCGCCCC AGCCTCCCCT GNCN 104

SEQ ID NO:3817

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04488

SEQUENCE DESCRIPTION:

GATCAGCACT GTGGTGAGCT CCAAGGAAGT GAATAAGTTT CANATGGCTT ATTCAAACCT 60
CCTTAGAGCT AACATGGNTG GGCTGAAGAA GAGAGACAAN NNN 103

SEQ ID NO:3818

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04489

SEQUENCE DESCRIPTION:

GATCCCAAAC CTNAGCTCAA TCAGTATTGC CAGANAGGGG TAAGACTGGT TGGAAGCTGA 60
CTGCAGACTT NNTTCCCCT TAGTATGTNC TGTGTTGTAA ATN 103

SEQ ID NO:3819

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04491

SEQUENCE DESCRIPTION:

GATCACTAAG CAAAGCTGCT AGTGGGATTC TATATTTCGT GTCATCTTTT TTATNATAAT 60
NTATTGCAAA TATTTTCTG AATAAATATA TGTTGTGTGA AA 102

SEQ ID NO:3820

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04492

SEQUENCE DESCRIPTION:

GATCCTGCCA CCAGGGTTNT TTTGAAATAG TACCACATGT AAAAGGGAAT TTGGNTTNA 60
NTTCATCTAA TCACTGANTT GTCAGGCTTT GATTGATAAT TN 102

SEQ ID NO:3821

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04493

SEQUENCE DESCRIPTION:

GATCTTGTTT AATCGGAAAC CCCC GTTACC TCCTCTTTT CTTTCTCTT CTTTTTTTTT 60
TTTAAC TNA ANATTTT NAT GATGATTAAG ANGGAAGTNG TN 102

SEQ ID NO:3822

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04494

SEQUENCE DESCRIPTION:

GATCCCAAAC ACTCNATCCT GTAAGNCGGG TACAGTCCTA TTGTNTGTTN NCACACTGAT 60
GATGTGAGCC TGTGAGATGA GCCAATCACC AGTTGTTATG TN 102

SEQ ID NO:3823

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04495

SEQUENCE DESCRIPTION:

GATCTCATGT ACTGAAAAA AATTCTTAAT TTTATTGGAG TTTATACCAC TGTGAAACTG 60
CAATATGACT GTAAGAGAGT AAAAAGATTG TNACATCTAA A 101

SEQ ID NO:3824

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04496

SEQUENCE DESCRIPTION:

GATCTGGGAG TCTGAAATGG TAGCNTTTTG TCCCTGTCTT CACACTATCA TAGGGAGAAT 60
CAAAAGANCT AACAAATATA ANCATGCTTT GTGAATNNCC N 101

SEQ ID NO:3825

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04497

SEQUENCE DESCRIPTION:

GATCTNTTTT NTNTCTATTT TTTGAGGTAC ATGCTACATA CATTTTNTNT GTAAACAACT 60
ATTTAGCATA TTGAATAAAA TAACATTTTA AAAATAGAAA 100

SEQ ID NO:3826

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04498

SEQUENCE DESCRIPTION:

GATCCCACGG CNAACACTCA CCACNCGCTA CCATACGCCN TCCCAGAGCT AGGGGCTGCC 60
TTAAAGGAAA TTGTAGCCTA AGTAGGTCAT GGCAAGN 97

SEQ ID NO:3827

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04499

SEQUENCE DESCRIPTION:

GATCAGCCAC ATCAACTCAG TTGTCCACCA CAGGGGAATT TTNAATGTCT TTTGTTTTTG 60
TNTTGTTTTG AAAATAATA AACAGGCAAC TGTAATA 96

SEQ ID NO:3828

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04500

SEQUENCE DESCRIPTION:

GATCTATTTG GCCTCTCAAA TGAAGTGA TCCCTGTAA AAAAGATTGA TGTTATTGTC 60
TCTGTAGAG GAACTAATA AAGCTGCAGG NGAAA 95

SEQ ID NO:3829

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04501

SEQUENCE DESCRIPTION:

GATCTATCAT AATTGCTTTT CTGATGCATT TAAAAATAAA TGGAACACTT AAATGTATAT 60
TACCGATGCA AACTGTGGAT AAAGTTGAAA GAAA 94

SEQ ID NO:3830

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04502

SEQUENCE DESCRIPTION:

GATCACAGGC CTGGCCGCGG TAACAGACTT TTACATGGAA TTGTTTAATT ATTTGTACTT 60
TTCATGCCAG AAAATAAAAG TTCAGAATCT TAAA 94

SEQ ID NO:3831

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04503

SEQUENCE DESCRIPTION:

GATCACTACG ATTAACGACG GTCGTAATGT TAAGACGTCG TCTCCATGAN CTTGGGGGG 60
ACTTTAATNT GGAATAAAGA AACTATCACT NAAA 94

SEQ ID NO:3832

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04504

SEQUENCE DESCRIPTION:

GATCCAGATN AAGTGCTGAA GAAAAGAAAA AAGAAGTGGA GAAGAGTATG NTTATNCTTC 60
TCCTTATTAA AGAAATTTNC TCAAAACAGC AAA 93

SEQ ID NO:3833

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04506

SEQUENCE DESCRIPTION:

GATCTATCCA GTGACGTGGC CTGGTGGGCG TTTCTCCTTG TACTTATGTG GTTTTTTGGC 60
TTTNAATACA GACATTTTCC TCCAGAAA 88

SEQ ID NO:3834

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04507

SEQUENCE DESCRIPTION:

GATCCCAAAA TATGGTAAAG TGAACCCATC TGTCTGCATT TTCTACTCTG AGCCCATTTG 60
TTAATAAACA CTTATTTTTA TATAAA 86

SEQ ID NO:3835

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04509

SEQUENCE DESCRIPTION:

GATCCGGGCC CCAGGCTGCT GCCGCTTTT ATAACTTTAT ATTATTTTNN TTTTAAGAAA 60
AAAAGCTCTT TAAATACCT CAAA 84

SEQ ID NO:3836

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04510

SEQUENCE DESCRIPTION:

GATCTGAGGA GCAAACCTCC GTGGCACACA TTTACCTGCA TAACAAACCT GCACATCCTG 60
CATGTGTACC CCAGAACTTA AA 82

SEQ ID NO:3837

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04511

SEQUENCE DESCRIPTION:

GATCCAGGAG GCTCAAAGAG AAGCCAAGTC AGCTTTGTTG TGATTGATT TTTTTTAAAA 60
AACTCTTGTA CAAACTGAA A 81

SEQ ID NO:3838

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04512

SEQUENCE DESCRIPTION:

GATCGTACT GTTATGTGGG ATTATTATTT CTAAATNTTA CTCATTGAAA TAAGCATACA 60
ATAANANGCA TTTATTGCA A 81

SEQ ID NO:3839

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04513

SEQUENCE DESCRIPTION:

GATCAAAACA AGACCCAGCT TATTTTCTGC TTGCTGGTAA ATTAAGCAAA CATGCTATAA 60
TAAAAACAAA ATGAAGGAAA 80

SEQ ID NO:3840

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04514

SEQUENCE DESCRIPTION:

GATCTGGTTG AAAATTGTAT TTCTATGTAA ACTCAACGAT ATGTTTGGTT TTCCTGAAAA 60
TAAATAATTT TAAATAAA 78

SEQ ID NO:3841

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04515

SEQUENCE DESCRIPTION:

GATCCTCACA CCTCAGCGTC CCAGAGTGCT GGGATTACAG TTGTGAGCCA CTGTGCCTGG 60
CCTTTTTTTT TTTN 75

SEQ ID NO:3842

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04516

SEQUENCE DESCRIPTION:

GATCAGAAAT CTGAGGTTCA ATGAGGCCAG AATAACTCAG CTTCAAAATG AATAAATGTG 60
GAAGCCAGCA CAAA 74

SEQ ID NO:3843

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04517

SEQUENCE DESCRIPTION:

GATCTCCCCT TGGACTGATA CCCTTTTCCC ATTCATTAC AAATAAATTA CAATGGGTGC 60
TGAGAACTTA AA 72

SEQ ID NO:3844

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04518

SEQUENCE DESCRIPTION:

GATCTGTGTC ATGGTTTAT AACCTTTNTN TTTTGTAAC CTTGAATGTT CAAAATTAAC 60
ATGCTGTTTA CTCTGAAA 78

SEQ ID NO:3845

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04519

SEQUENCE DESCRIPTION:

GATCAGGAAG AACTAAACAA AACCCACACT CCAAAAACTA ACAAAGAATA AATAAATAAT 60
ATAAAAATAA A 71

SEQ ID NO:3846

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04520

SEQUENCE DESCRIPTION:

GATCTCAGAA CAGANTTAAA ATATTGTGAA AATTACAGCT TAATAAATGT TTATTGTAAT 60
TTTNTTGTA A 71

SEQ ID NO:3847

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04521

SEQUENCE DESCRIPTION:

GATCTAGGAC TTGCCTTATT TTATCATTTT TCTTTAATAA TCTCCAATAA ACTTTCTTTA 60
TTCATTAAA 69

SEQ ID NO:3848

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04522

SEQUENCE DESCRIPTION:

GATCACCACT AAAGAAGTTA CTCATATAAC CAAATACCAC CTGTNCTCCC AAAAACCTAT 60
GGAAATAAA 69

SEQ ID NO:3849

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04523

SEQUENCE DESCRIPTION:

GATCAGTATG CTGTTTAAAT AATTATGTGC CATTTTAATA AAATGAAAGG GTCAACGGCC 60

CNNTTTAAA 69

SEQ ID NO:3850

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04525

SEQUENCE DESCRIPTION:

GATCTACACT GATGATTAAA TCAAATTGGC TAAGATTATT CGTTCTAATA AAAGCACTGA 60

CTCCAAA 67

SEQ ID NO:3851

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04527

SEQUENCE DESCRIPTION:

GATCTCTTCC TGTTTTGTAC ATAGATTAT TTTTCAGTTC CAAGAAAGAT GAATACATT 60

TGTNAAA 67

SEQ ID NO:3852

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04528

SEQUENCE DESCRIPTION:

GATCTAGCAT ATGTATCTTT TTAAAGGTA TTGTTAATAA ATATNCTGTC ATTTGTAAAG 60

ATANAAA 67

SEQ ID NO:3853

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04529

SEQUENCE DESCRIPTION:

GATCCATCTT CAAATCAAGG GCTCCCTGGC TACCAAATNC TGTCTAGTAA AAATNATTCG 60

AGCAAA 66

SEQ ID NO:3854

LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04530
SEQUENCE DESCRIPTION:
GATCTATTCA ATGTACAAAA TATTTTGAAA GTTCTGTGA TTAAATGTNC TTTGAAAACA 60
TAAA 64

SEQ ID NO:3855
LENGTH:64
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04531
SEQUENCE DESCRIPTION:
GATCTGTTAT NAACACCTTT GTTGGCTGG TTCAGTAATA AATATGTNAG ACTTTTCATT 60
TAAA 64

SEQ ID NO:3856
LENGTH:62
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04532
SEQUENCE DESCRIPTION:
GATCTGTGTA AGCTCTGAAT GAACTTCTTT ACTCAATAAA ATTAATTTTT TGGCTTCTTA 60
AA 62

SEQ ID NO:3857
LENGTH:61
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04533
SEQUENCE DESCRIPTION:
GATCCAAGAT ACGTCATTTT TGTATTGGCA AAATGCCACT ATTAAAGTGT AATTCTTGAA 60
A 61

SEQ ID NO:3858
LENGTH:60
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04534
SEQUENCE DESCRIPTION:
GATCTCAAGT GCTTAATGAT AAGGTGTTGA CTTGTAAAT TAAACCATTG GGAATACAAA 60

SEQ ID NO:3859
LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04535

SEQUENCE DESCRIPTION:

GATCAAATGC CCTAAATGT AGTGACCCGT GAAAAGGACA AATAAGCAA TGAATACAAA 60

SEQ ID NO:3860

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04536

SEQUENCE DESCRIPTION:

GATCTGAGAC TTTGAGTCTC CAGAACTGTG AGAAAATAAA TTTCTGTTTC TTAAGCCAAA 60

SEQ ID NO:3861

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04537

SEQUENCE DESCRIPTION:

GATCTTTCCT GTCTTCCCA AGTTTGCATT TCCGACATTA AAGTTTACTT TTNAGTTAAA 60

SEQ ID NO:3862

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04538

SEQUENCE DESCRIPTION:

GATCAATCAG GGAGAAAATA CAGAAGAGAA TAAAAGAGA CTCATTCAGT GGAAGCAAA 59

SEQ ID NO:3863

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04539

SEQUENCE DESCRIPTION:

GATCTGAATT AAGCTGTCTG CCATTGGAG AAATTTAAAT ACTATTTTAA ACACACAAA 59

SEQ ID NO:3864

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04541

SEQUENCE DESCRIPTION:

GATCCACCCA GGCCTTTCNG TGAAATAAAA GCTCCCAAGT TGGGTACAAA CCAGGAAA 58

SEQ ID NO:3865

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04542

SEQUENCE DESCRIPTION:

GATCCCAGTC TGAAGGATTA TTGTGAAGAA TAAATGAGAG AATGTGTAAA TGGCAAA 57

SEQ ID NO:3866

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04543

SEQUENCE DESCRIPTION:

GATCTGTGTA TTTGATTTTG TACTTTAAAT GTGACAAATA AACCTTTTGG GAGAAA 56

SEQ ID NO:3867

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04546

SEQUENCE DESCRIPTION:

GATCTAATTC TGA AACATT GTAATAAAT AATNAGCTAT AATGGTATTT TCAAA 55

SEQ ID NO:3868

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04547

SEQUENCE DESCRIPTION:

GATCTCGAGC GTTATCTCG GGCTTTAATT TGCTAAAGCT NTGCACATAT GTAAA 55

SEQ ID NO:3869

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04548

SEQUENCE DESCRIPTION:

GATCTGCCAT GCACTCCAGC CTAGGCAACA AGAGTGAAC CTGTCTCAAA ATAAAATAAA 60
ATAAAATAAT AATAGTAATA ATAAA 85

SEQ ID NO:3870

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS04552
 SEQUENCE DESCRIPTION:
 GATCAAAGGT CATTTGTGTA GATGAGTAAT TAAAAAATAT TTAAATCACA AA 52

SEQ ID NO:3871
 LENGTH:51
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04556
 SEQUENCE DESCRIPTION:
 GATCAAATAG AACAGGGTT TGCAAGTNTC CATACAGATG CCTCTACCAA A 51

SEQ ID NO:3872
 LENGTH:50
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04557
 SEQUENCE DESCRIPTION:
 GATCCTATGT AAAATATATA TTTATGTATT AAAAATACTG AAAACATAAA 50

SEQ ID NO:3873
 LENGTH:443
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04597
 SEQUENCE DESCRIPTION:
 GATCCTATTT TATAAGGAAT CTTTTTTATA CGAATGTACT TATTCTTTTA GATATCAGTT 60
 CITGAATGTA TACTCCTTAT GATATACAGC AAGAGATTCT TGAGGTTCCC AAGAATTGTC 120
 CTGGAAAGAA AATTGATTTT GAATTGAGAT TAGCAGTGTT TTAATTTTCG TGAGATAACT 180
 CCTTTAACTC AGCACTTTCA CAAAACCTAA ATATTAAATA AATTGAATTT GAGGCTGGCA 240
 TTCTTCTCTA AATTGAATTG GACTGGTTGT TTGCTGAGGT ATGAATGGAG CAGCTCGGAA 300
 GTATTATAAT TCCGTAGCTG AAACAGGACG CTTATTTATG TATGNTCCAA TCTCTNCTCA 360
 TTAAAAATG NCTCAGCATT TCCNGCCATT TAGATAGGTA AATNAATAGT CCATTANNTT 420
 TGNTNACCTA CCATAANTAT TTN 443

SEQ ID NO:3874
 LENGTH:423
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS04598
 SEQUENCE DESCRIPTION:
 GATCTATGGT ACAGTTCATT GGCAGAGAAT CCAAGTACTG TGGACTTTGT GATTCCATAA 60
 TAACCATCTA TCGGGAAGAG GGCATTCTAG GATTTTCCGC GGGTCTTGTT CCTCGCCTTC 120
 TAGGTGACAT CCTTTCTTTG TGGCTGTGTA ACTCACNNCC CTACCTCGTC AATACCTATG 180

CACTGGACAG TGGGGTTTCT ACCATGAATG AAATGAAGAG TTATTCTCAA GCTGTCACAG 240
 GATTTTTTGC GAGTATGTTG ACCTATCCCT TTGTGCTTGT CTCCAATCTT ATGGCTGTCA 300
 ACAACTGTGG TCTTGCTGGT GGATGCCCTC CTTACTCCCC AATATATACG NCTTGGGATA 360
 GACTGTTGGT GCATGCTACA AAAAGAGGGG GAATANGNAG CCGAGGGAAA TAGCTTATTT 420
 TTN 423

SEQ ID NO:3875

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04599

SEQUENCE DESCRIPTION:

GATCCAAATN ACCATCATCT CTGATGGAGA TGGGTTGGGT ACCTGGCCTT CATGGCACCT 60
 TCACTGCTAG GGATGCTCAA GGGGCAGGCC TGGGGCCTTC CCTCCTGTCT CTTCTCGGTC 120
 TTTCTCTCT GAGCANCCTC CTACCTCCCC TGCCTGAGCC TCACTCCACA GCCCTCCCAG 180
 GTACCTAGCA GAGGCTGTCA GTCCTTGGCT CACCTGGAAC AGGGCTGGGG CTGGGTTGGA 240
 ACAAGGTGTG TGCCNCACCA CATCTCTATG ACTCTGTTCT CCCTCCCTGC ATTGTGGCTC 300
 TTGTATTTGA GGGCCTCAAG AGAGTGAGGC CCTACCATCA CTGTCCATAT TAAGTCCAAG 360
 CCCAAGTGNG GTTCTCTGT TCCCTCNTAA GCAATCAATN GTTNAGTTTC TAN 413

SEQ ID NO:3876

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04600

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGACTC CCACAGTGCT GGGATTACAG GTGTTAGCCA CCACCCCGAC 60
 ATTATTTGAA ACTTTTATTT TATCATGAGA GAGTTCCAGG AGTCAACTGG AGAGAGATTT 120
 TTGGTATGAA AATTACATAT GCAAAAAGAC TGATTCCAGT ACATGAAATT AAATTCAACA 180
 TTTACATTAA ATGCCCTCAA ATATGGTAAA ATGGTTTCTT TTGGCACNNT ACCTCATTAT 240
 GTTTGAATG ATTTGGTCTA TCATATGAAA TAACTTTTAT AAATATAGTA NTCAGGCCT 300
 GGGCACAGCG GCTCAAGTGG GAGGNCTGCT TAAGCACCCG AGTTTNAGAC CAGCGTGGAC 360
 AACATGGGGG GACCCCTTNC TGTCCCAAAA NTAGCTGAGC ATGGCAGCGN 410

SEQ ID NO:3877

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04601

SEQUENCE DESCRIPTION:

GATCCCAACA ATGGAACCTT CCTTCTCTGC TGTCAACAAA GGAATAAAAA ACTTCTGTGT 60
 GATTTGATAC AGACAATTTA GAAAACCTTT GTTTCAAAGT TTCCCATCCA GACTAGCCAA 120
 GGAGAGCAAG GGAGGGNNNC TAATAAGCCC ATTAAGGTGT CTTCCCAAAC AAATGTTTTT 180
 TTGTCTCTT TGCCCAAATG CAGAAACAGC TGCAGCTTTA AAAANTAGCA TACTTTTATC 240
 TTTTGANGGA AATATGTGAA AGTTTGTAGCA CTGGTTGTCT TTGGTTGGCA AGAAATTGTT 300

NAGTGTATN NATTNCTTCC TATTTGNCTG AATTTNCCA AATTTGTCCA CAGCAAGCAT 360
 GACTACTTTN NTCATATNAA ATCTCCANTG NATTTATGCA AA 402

SEQ ID NO:3878

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04602

SEQUENCE DESCRIPTION:

GATCTTGTC CTAATCTA ATTTATATCA AATTTATGAG AGAAAGTATT TTCCTAATNA 60
 TGGTCAAATA AATTTGGTTA ACATCCTAGT GATTCTCTTT CTATATAATA AGGCAATTAC 120
 AGTTTTCAAA GCATTAAGTC TAACATAACT TTAAACATTC TCTTAGGTTT CAAGACACTT 180
 CTATTTAATA TTCATTGGGG AAAAGTTGTC CAGCTATCAG CTAGNGAAAA CACATGCAAA 240
 TATGGTTGTG TAAAGTTAAG GGTATANGG NANNANANAT CAGTAGAATT ACATAATACT 300
 AAANGTTGCA GTTGAAGGAA TATCCCAGTN TGTGTTGGTA GTTNCTNNAA GNNTTNTAGC 360
 TGTNATTGCC TTGTTTTNT AGCCCTTNGT TTN 393

SEQ ID NO:3879

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04603

SEQUENCE DESCRIPTION:

GATCTNAAGC TTNCTNCTTG GACACCCCAT ACCCANAGTC CTCCAGGCCA CCCTTAAGTA 60
 CAATGTTCTC CTACCTAAGA AGGCATCTGG ATTTTNTCTT TCCTTGGAAG TAGTAAAGAA 120
 CTACTCTTTG ACTGTTTTTG ACCTCACAGT GAACCTCAAA TACACTGGAA TTCGCAATAA 180
 ATCCAGTATG GTGGTTATAG ATGTAAAAAT GCTATCAGGA TTTACTCCAA CCATGTCATC 240
 CATTGAAGAG CTTGAAAACA AGGGCCAAGT GATGAAGACT GAAGTCAAGA ATGACCATGT 300
 TCTTTTCTAC TTGGAAAATG TTTTGGTTCG AGCAGACAGT TTCACTTTTT NCTGTTGAGC 360
 AGAGCAACCT TGTGTTCAAC ATTCAGCCAG GN 392

SEQ ID NO:3880

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04604

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTCTA GCCTGGACGA CAGAGGGAGA CTGTCTCCAA AAAAAACAA 60
 AGAAAGAAAG AAAAACTGT AAAAAAAT TTNCTGCAAT GGNCTTAATA TGTGTGTCCT 120
 TTAAAAATGT ATATATTGAA ACTCTAATCC CAATGTGATG TTATTTAGAG GTGGGGCCTG 180
 TAGGAGGTAA CTGGGTCTTA AGGGTAGAGC CCTCATGANT GAGATTAGTG CCCTTATAAG 240
 ANGCCCCAAA GCTAGCTACC TCTNTTCCA CTATGTAAGG NTACAAAGNG AAGTTGGCTG 300
 TCTGCAAACT AGAAGAGGGC TGATACAGTT TGGCTGTGTC CCCACCCAAA TCTTCATCTT 360
 AGGTTTTTAA CTNCCGCAAT TCCCN 385

SEQ ID NO:3881

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04605

SEQUENCE DESCRIPTION:

GATCTTAAGG TAATTACAAA AGGGAAATTC CAAGAATGCA TAACACAATG ACAACATGGT 60
GAGAAAAGTG CAGTACTACT TCCAAGGTAG CTAGTGTAAG GGACACTTGA GTTTTTAAAA 120
CTGTGGTTAA ATGTTTTATG TGGAATTTGA TGAGTTTGTA TATTAAATAC CACTGCTTGC 180
TGCTTTTACT AGAATCAAGT TAAGGGNCAC GTTAGAAATA GAACAGCTTA ATATCACTGG 240
CTTCAGAGCA AAATGAGCTC GGGTGACTGC AGATTATGAT GGTAATATG GCTTTAATTA 300
CAAACATGNG GNATGATTCA CTGAAGGTGA AAAGNTAGGG CGGNTGTGNT ATTGAAAAAA 360
AACCANCAT TTTGGCATT GAN 383

SEQ ID NO:3882

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04606

SEQUENCE DESCRIPTION:

GATCTATTTT TCAGTAATGA GTGTGTNCTC ATGCCTGTTT CAATATTGGG TTTGGAGCA 60
TTATTGTACC AGGCTGTTGA TTGCATACTG TAGAAGATTT GATGTTTANA CTGGTTCTTC 120
TTCATATACT ATGTTTNGTC TCAGTTNCTA TGCTATTGGA TGATACTTCA TTTGTTGTTT 180
TGGTGCTGAT GAAAAGGGNA ACCTGCTCTC CTCTATTTAG ACCTTGACAC TTATTACTGC 240
TCAGTTGTTN CTGGAGCTGA AGNAATGAAA NGTCTGGAAG GAACAGCTAT CAGATGTGGC 300
CATTGGGATT GTNACAAATG AGGAACCCTG TGTACTGGGA CAGTTGCCAN AATAATATAT 360
GTGGCCTNCT ATAATGTGCA TTN 383

SEQ ID NO:3883

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04607

SEQUENCE DESCRIPTION:

GATCTGAAGC CAGAAGGGCT GAGTGTATTG TNAACTTATT CTTGCATGTN GCTGTCTGGG 60
AATGGACCAC ACTACAGCAG GTAGTNCTGG GGGCGATACT GCCGAAAGNC CGANCACATG 120
TATTTTGGCT GCAATTGAGG NNCTTGGGAT GCTATTAATT TTGTATTTCA GCAACTGCCC 180
CTTCTCCTAT CCCAAAGCAC CAATTACTNC CCTCTGCCTC AGNGGTACCA GTATAAGATG 240
ACATTCCAAA GACTGGAGGC AACTCAGCCT GAGTTAATTC ACAAAAATTAT GCCATGCTGG 300
GGCTTGAGCT TGAGCTTGGG CTTAGGCTTG GGCTCAGCTT TTGACCCTCA GGCATCTCCT 360
TTNCCTNCT GTCTTCTTN 380

SEQ ID NO:3884

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04608

SEQUENCE DESCRIPTION:

GATCTGTTCA CAAGCTGGTG TTCAGGAACC AATGTGTGAC TGGTCCATGC CCACTTCTGA 60
 TTATATGGAC TCAGAGACAA TGTACATGGG AGTGCTTTGC CAGTGGTAAA GTTCTACAA 120
 ATGGGAGGTA ATTGCATGGC AGGTGTAAAG TTATTTGGAC CATTGAGGCC AGAAAAAATG 180
 TAGATTTAAA ATATACTGAT ACTGAAAGCA GANCTGTTTG ANCTAATTGC TAATTTTAAG 240
 GNATTCAGAC ATTCATCCAA AGGNTTTAGG CCAAATGTTG CCTAAATTGT TTCTCTATTG 300
 CATATGAAAG TGATTTCNGC GGCTTAACNG TTCTCTNCTN TTTATGTGCA TGGCCATAGC 360
 TGGTTGTNTT CACATGN 377

SEQ ID NO:3885

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04609

SEQUENCE DESCRIPTION:

GATCAAGGTG AAGCTCACAG TGTCAAGGCTT TCTGGGAGAG CTCACCTCCA GTGAAGTCGC 60
 CACTGAGGTC CCATTCCGCC TCATGCACCC TCAGCCTGAG GACCCAGCTA AGGAAAGTTA 120
 TCAGGATGCA AATTTAGTTT TTGAGGAGTT TGCTCGCCAT AATCTGAAAG ATGCAGGAGA 180
 AGCTGAGGAG GGAAGAGAG ACAAGAATGA CATTGATGAG TGAAGATGTC GGCTCAGGAT 240
 GCCGGAAT GACCTGTAGT TACCAGTGCA ACGGGCAAAG CCCCACAGTT TAGTCCTTTG 300
 GAGTTATGCT GCGTATGAAA GGATGAGTCT TCTCCGAGA AATAAAGCTT GTTTGTTCTC 360
 CCTGAAA 367

SEQ ID NO:3886

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04610

SEQUENCE DESCRIPTION:

GATCAAAGTA GCTTACTATA TCTAACTGT AAAACAATAT AGTTTCTCCT GAACACCTGC 60
 TTTCTTCTG GGAGTCTGGA ATTTTGGTAT GTGCCAGGCA GAGACTACCT TTGTGACCAG 120
 CTCCCAGTAA AAACCCAGG CACTCAGTCT CTAACAAGCT TTTCTGGTTG ACAGTGTTTC 180
 ACAAGTGCTG TTAACTGG TTGCTGGGAG AATTAAGCTC ATCCTCTGTG ATTCCAAGTG 240
 CGGAGGATTC TTGGAAGCTT GCACTTAGTT TCCCCTNGAC TTCACCCCAT GTGTCTTTT 300
 TCCTTTGCTG ATTTTGTTTT GTATCCTTTC ACTGTAATAA ATCATGGCCG TGAGCAGAAA 360

SEQ ID NO:3887

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04611

SEQUENCE DESCRIPTION:

GATCGCAAGT GACTGCTTCC GCTTCCAGGA CTGGGCCAGC TAGTGGGGGT GGCAGAGGTC 60

TCTTTGCTTC ATTCAGCCCT AGCTCTGTAG AGAAATGCAA ACCTCGACTC TCAAGGATGT 120
GAGGAACACA AGTTCATTTT TGTGTTGCG GAGACACTGC AGACTCCACT GTGCCGAGGT 180
TGAACCTTN NTTGTTGCTC AAGTTCTAGG AGTCCCTTTC CTGAATATAT ACTTGTTTGT 240
CATAGTTTCC TTNNCAAAGT AGTAACTTT TCTATTNNTC TACTTGCCCA GTAGAGACTC 300
TTGATTCTGG AANATTCTNG NCAAAATAAT TTAATAATA CACATGGTTG CTTCTTAAA 359

SEQ ID NO:3888

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04612

SEQUENCE DESCRIPTION:

GATCACTTGA GGCCAGGAGT TCAAGACCAG CCTGGGCAAC ATAGTGAGAA TGCATCTCTA 60
CAAAAAATAA AAAAAATTAG CTAGGCATAG TACCTGAGGC CAGGAGGTCC AGGCCGCAAT 120
GAGATGTGTT TGTGCCATTG CACACCAGTC TGGGTGACAG AGAAAGACCC TGTCTCANGG 180
GCANNTTAAA TAAATATCT TCATATATAA ATTAAGCTAA TAAAAANTAT TTTTCCTGT 240
ATTTNTTAN TATTTTCTAA TCTGAACCCA TATNCAGCTG ACTANTTCAT TCTTAGAANT 300
GTGTTATCTG TAATCTNTCC TAAACAGTGT AGCCCAACAAG GNTCCATGGC ACTTTTAN 359

SEQ ID NO:3889

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04613

SEQUENCE DESCRIPTION:

GATCTAAAGG GGACACTGTA CTCAAGCTTT TNACCTCATG CCTTGTGTAG TAAAAAAGGA 60
TTTGGGGGTT TTGTTTGGTT CCTGAGAGGG TTGTGTTTTG TTTTGTTC CTTTGTTTA 120
TGTTTTGGCC TTTCTCTTT GTCTTTCCAT GTAGACCAGA TATTGAAAG GGCAGACGAT 180
GGCTAGAGGT GTAATGTGCA GCTTGTATTAT ACGGTATTTT GGGAACTTA CCTTGGATGG 240
GAAATCGAAT CGTGGATTCA CCAGGCCGGT GCTGGCACAC TCACCCTCGC CCTTCCCTC 300
CGGTTTCACTA CCTATTGTTT CTCCTTTCAA ATATGTGATT GTACTAGCTC TTTCCATAN 359

SEQ ID NO:3890

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04614

SEQUENCE DESCRIPTION:

GATCTGATGG GCTCTAACAG TGCTTACTTG CAGCCTTGTG TCCACCACCA ACTTCTCATC 60
ATGTTTCTCT CCGTTGGCCG TTGGGTTTCC AACTCTTCAA NCTTCAGGGT CTGGGNCAGG 120
GAGTGGGCCC ACCATTGTG GGGAAAGTAT CATTCCTCCA CCTCAGGCTT GGGTAGATT 180
GGAAAAANAC AAGGTNAGGA TACGCCTGTT TGAGCTTTGG GGNATGAACT TTGCTTTT 240
TATTTANCTA NGGNTACTTT TATATGATGG GTGCTTTGAG TGTNATTNAG CAGGNTCTCT 300
TNGTTTCCCG AGGGNCCTGC TTTTGNAAGG TGACCNNGGT TACTTAAGCT AAGGNTTN 358

SEQ ID NO:3891

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04615

SEQUENCE DESCRIPTION:

```
GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
TAACGTAATC TACCATTTC TACACTATT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
AAAACCTAAC GCTTTTGGGA AGACATTCT GTAGCATGTC AGTTTGGAGA AATGNNTGNG 180
CTACGCCTTG ATGAAAGAAC CGTGTGGTG CTGCTAAGTT TAGCCATTAT GGTTCNCCT 240
NTCTCTCTCT TAAGCCTTAT TCTTCAACTA AAAGATGAGG ATTAAGAGCA AGANGTTGGG 300
GGNNGATGTG AAAATAATTN TATGNGGTTG TCTAAAATAA AGAGTAGTTT CTAAA 356
```

SEQ ID NO:3892

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04616

SEQUENCE DESCRIPTION:

```
GATCTACAAA TGTACGTTGT TACAGGGCTG CTCCTAAAG ATTTTTTTTA CCTCAGGTTT 60
CTCTTAATAT AGTTCTCCAG TCACTGACCT TGAATTGACT TACATAAATT ACTGCCAATG 120
TTTAAATTGC CCTTATGTTT ATATTTATTA TGTCAAGCCA ATTCGTACAT ACAATTGGA 180
ATCAAATGTC ATAAGAATTT ATTATATAAA TTTNTCAAGA ATAAAAATGC CTCTCCAGCC 240
TTAAGTATTT ACATGCTCCC AGGTCATTGT CAGTTTATGG TATTATGTTG TTTTATTAA 300
AGCATTGAAT TGATAGAAAA AATTGCTCTG TAATAAAAAT CACTTTCAC ATAAA 355
```

SEQ ID NO:3893

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04617

SEQUENCE DESCRIPTION:

```
GATCTCATTG TTNTTATGGC TGCATAGTAT TCCATGGTGT CTATGTACCA CATTNCTTN 60
ATCCGGTCCA CCACTGGTGG CATTAGGTT GATTCATGTC TTTGCTATTG TGAATGGTGC 120
TGCGATAAAC ATGCATCCAT GTGCTTTAC AGCAGAACGA TTTATATTCC TTTGGGTATT 180
TTTTTTGAGT ATAGTAATAG GNNNNNNGG TGGAGTGGCA GTTCTGTTTT AAGTTCTCTG 240
GGAAATCACC AAAGTCTTT CCACAGCAGA TGAAGTAGTT TACTCTCCA CCAGCAGTGT 300
ATAAGTGTTT CCTTTTCTCT GCAACCTCAC CAGCATCTGT TATTTTATA N 351
```

SEQ ID NO:3894

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04618

SEQUENCE DESCRIPTION:

GATCTTCTTG TAAGCACATC CAGAGTGAGA CTTTTCTATG TTTGAAAGAA GAATGTGTGT 60
 ACATTTCAAG AATTTGGGTT TTTTGGAGGG AGGAGGAACT GTTTACGTTT TTCCTCCACA 120
 CGTTTGATTT TTGACACATA CACCCCTAAT TCCTCAACAG CAGACCTCCT GCAGCCACCA 180
 GGGGCCAGCT CTGTGTAGGA ACCAGATGGT CTTTTTCCAA GCNGCATCTT CAGCTGCCAG 240
 CTAAACTCCA ACCCCAGNCA GGGAGGGGCA GGCTCAAGTC TTNCAGAATC ACACAGGGGC 300
 AACACATGCA NNNNCCGGNA CCTGTNCTGT ACNGTCTNGG TTTNTTCNTN 350

SEQ ID NO:3895

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04619

SEQUENCE DESCRIPTION:

GATCCATAGG AGGGTAAAT GTCCGTTTTC TTCATTAAAA CTCTCAGCT CAAATTTATA 60
 CTAAAGCATA TCCAGGAATT AAAAAAAG GTTTTGATGA TATTTGCTTT CTAGTTTAAT 120
 AAGTTTTAAT ACTGAATAGG TTAAATTAAT ACAAATAAC ATAAATGCT AATATTTATT 180
 GAGTATTAC TTGTGTACCC ACTACGNTT TAAGTAATTT ACTGGGATTA TTTATTTTA 240
 GTTAAACAAT GCAGGTAGCT ACTATAATCG TCCNGGTTTT ACACTTGAGG AAACAGGCTA 300
 AGAGAGATTA ANTTAGTGGC CCAAGGTCAG AAAGCTCGTA ATTCTTGN 348

SEQ ID NO:3896

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04620

SEQUENCE DESCRIPTION:

GATCCCAAAT ACTGCCATTG TGTGTCTAC TTATGAGTTA ATTGTGTACC TGTTAGAAGA 60
 CCGTACTCAG TAACAGGCCG GAAAATTGTG CTCTAGAAGA ATAAACTGA AAAACTCTAG 120
 AGAATTTTT TTCCCCATTG ATGTTTAGAA AGTTTGAGAC TGAACAGGA AAGGCCATAA 180
 AATATCTGGT TCATATCACC TGTTGGACAT TTCCTTTTGG ATTCATGCTT TCTGGAAGGT 240
 TTAAATTCAT TAACGTAAAT AGTTAATTAT AACTNTTNT TTAACCTAAG AGGATTCAGG 300
 GTTAAGCACC AACTAAATTA AATCATGCTA TTAAATTTAN GTATAAA 347

SEQ ID NO:3897

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04621

SEQUENCE DESCRIPTION:

GATCTAGAAT CTNTNCTNGG NTAAGCATAT AGGATGCCAC TTCTTGCTAC CTCCACAGCA 60
 ATACATCACC TGGACAGCTT GCCACTCTTT GTTGCCTTGA ACTTCTCTGA TGTTAGGCA 120
 GCCCATTCTG GTACTGAGAA CACAGTGAAT GAGTACATC CTCCTGCTTT CTCTTCTAT 180
 TATNACTTTT ACCTGATTTT TTCTCAGGAG GAAGCTGTAC ATTTAACAG GACAGATAGG 240
 AGGAAAAGCA ACTATTTTTC TGCCGAGATA ACAATTGACA ACTGGGGCA GTATGTGCAG 300
 AGTTTTCTTG GAGTTGTATT AAAAATTATC TGATAAGCTG CCAAA 345

SEQ ID NO:3898

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04623

SEQUENCE DESCRIPTION:

GATCAGTGTA CTGTTACCCG GACATACCTA TTCCTTCACA AGTTCTGGTT CTTCAGTGCT 60
 GCTTACTATT TTGGTAACTG GGCCTTTCTT GGGGTATTTT TGATTGGATT AATTGTATCC 120
 TGTGTAAAG GGAAGAAATC GGTATTGAA GGAGTAGATG AAGATTCAGA CATAAGTGAT 180
 GATGAGCCCT CTGTCTATTC TGCTTGACAG CCTTCTGTCT TAAAGGTTTT ATAATGCTGA 240
 CTGAATATCT GTNATGCATT TTAAAGTAT TAAACTAACA TTAGGATTG CTAACNAGCT 300
 TTCATCAAAA ATGGGAGCAT GGCTATAAGG CCAGCGATAT TN 342

SEQ ID NO:3899

LENGTH:410

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04624

SEQUENCE DESCRIPTION:

GATCTGGTGC CCTCTTCTC CTGGATTAC ATCCCCACCC AGGGCCCGCT TTTACTAAGT 60
 GTTCTGCCCT AGATTGGTTC AAGGAGGTCA TCCAACTGAC TTTATCAAGT GGAATTGGGA 120
 TATATTTGAT ATACTTCTGC CTAACAACAT GGAAAAGGGT TTTNTTTTCC CTGCAAGCTA 180
 CATCCTACTG CTTTGAACCT CCAAGTATGT CTAGTCACCT TTTAAATGT AAACATTTTC 240
 AGAAAAATGA GGATTGCCTT CCTTGTATGC GCTTTTTACC TTGACTACCT GAATTGCAAG 300
 GGNTTTTAT ATATTCAATA TGTTACAAAG TCAGCANCCT CTCCTGATTG GTTCAATNAT 360
 TGAATGTGCT GGNAAATTNA AGGTCGGTTN NANTTTAAAN CAAGGNTNCN 410

SEQ ID NO:3900

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04625

SEQUENCE DESCRIPTION:

GATCAAGATA TAGAGCATCT CCATTTATAA AGTTCCTTCA TGCTCCTTCC CAGCCAGCAA 60
 TTCTNCTTAC TGTCTGCTG ACTCCTGTTT TCACCTTCAT CACCATCAGC TCATTNGCT 120
 TGTNCTTGAC TCATAAACAG AATCATATAG TAGGTGGTTC GTTCAATGTA GGCAGTCTGT 180
 TTTNGCTTTA ATCATTACAT GAGTATACAT CCATATNGTG TGAAGCAGTA GTTCTTTNGC 240
 ATTGCTGTGT AATATTCCAT TGTATAATTG TATAAATATA TGTGGTATAA ATGTAAGTAT 300
 AGCACANTTG ATTCCTTATN GGGCCACTTG GTTTATTN 338

SEQ ID NO:3901

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04626

SEQUENCE DESCRIPTION:

GATCCACTGG TAAAGGGCAT CCCAGAGGNC AAAAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
TGTGTGATTT CATAATACAA AAAAAAGAA AAAAAATTAN ACAAATCTT GGAAATATCT 120
CAAATGTAA TAACAATATG ANTTTTCTC ATGCATACTA TTACTACTAA GCATGTACGT 180
GANTTTTAA ATGTATAGAT GTAAACTTTT ANTAAANNTT GGGGTGTGGT AACCCAAA 238

SEQ ID NO:3902

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04627

SEQUENCE DESCRIPTION:

GATCTCTATA AGTTATTAAT TTAACCTGAA ACCAAAGTGG TCTCCATTTA AAGTTACTTA 60
ATCCCTTTGT ACCACCTATT TCTAGTAAA TATATGNGC TANNCAAATA GGTAAGTGC 120
TTCCTTGCCA TGATGGTAAT GGATTGGAAC TATGAAGGCT CTCAGTGTAT TGGCTTCTGT 180
AAAGATGAGG CGTCTCCTCA GAANCCCNAA CTTTTCACAT TTCTGCTTAC TAGACCTGGG 240
TTGATGTACA TGGTAAGTCT CAAACAGATG CAAGCTATGT GCAAAANGGA ACTTTAGCCA 300
AATGGAAATA GCTGGATGCT TTGNGAATTG N 331

SEQ ID NO:3903

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04628

SEQUENCE DESCRIPTION:

GATCCAAACT GTGTTGTTCT TAAATCAAAA ATTGGNTAAT TTTTAATATN TATGTATTAA 60
TCACAAA 67

SEQ ID NO:3904

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04629

SEQUENCE DESCRIPTION:

GATCTGCCGG AGTCTTGAAA TTCAGCTGAT TGGAAGTGGT TTCTTTGACT TTCAAGGTCA 60
TTCCCTATCA GTTACTACTA AGAGTTCTCT TACTGTCAGA ATCTCTCTTG CAGTACAGCT 120
CAAAATAGTG GATGCATTTT AACTTGACC ACCTTTTCCT ACCAGCTAGT TAGAAGTCAT 180
CAATATTTCT CTACATTTNG TTTATCTGTA AGTCCTTTAA ATCTATTTN GCTAGGCATT 240
CATTATGATT AATAGTAGAC TTTAAGACA ACATTTNTGT CACTCCCCAC CTCCTCATAT 300
TTNATAAAGG AGATATTTAC CTTGAAA 327

SEQ ID NO:3905

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04630

SEQUENCE DESCRIPTION:

GATCAAAGAC CAAAACATTT TCTTAAATAT ATTTTATGTA ATATTTTATT TGTATACAGT 60
GTTGTTGATG AAATATTTAA CTAGAGCATG ATATTTTAAA TGTTAAGGTG TAACATATGT 120
TAAATAAAAC TGTATTTTN GAATTTNAAA ATTNGTTTT NGGGGGTATG ANCTACTAGA 180
GTTTAAATTT CTGCCAACT ATTACTTATA TGTNCTATTG TGTAACATAC TTNCTNGAAA 240
TATTTNGGTT TATAGAATTG ANGGTTCTTA TCAGATGGGA TACTGGGGAC TATAACAAT 300
GGAAATAAAG CCACTGTATT TNTAAA 326

SEQ ID NO:3906

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04631

SEQUENCE DESCRIPTION:

GATCTAATTA AGCTAAATTT TGGTGCACAG CAGGTTGTAC ATGATTTCAT GTTTATGTAG 60
CAAAATGCAT TGAAATGTAT TAGTGTGAA ACATACATGT AAAGGTAGTT GTGGAAATTG 120
TTATATTNC CTGTGTGTC ATTTATTTAG AGCATAAAGG TTTTTTTTAT TCAGCCNNNC 180
TGAATAAGGC TAAATGAATA CTGTAATTGA AAATATATTT NAAATCTTTG TCATGAGTTT 240
TTTTAAAAA ANCTATTGCA AATTGTATCA TTCCTGATTA CACAGAACTT TGTGGGTGGT 300
TTTAANTAAN TNTNNTACTT CTAAA 325

SEQ ID NO:3907

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04632

SEQUENCE DESCRIPTION:

GATCTGGCCC GAGCTCTCCT CAGACCTCCC CAGACCTGTC TTCTCATCAG CCACCGCTGT 60
TTTCTTTTGC CGAACGATGG TTGCATCTCT CGGACACAGT GTACCCCTC CCAAGCCCTC 120
CCTGAGCCGT TCTCCTGAGT CCCTGAGGGC AGACACAGCT CCAGGGACCC AGGCCGGCTG 180
CCACACCCNC GACACTNCTG NTGTCCACTG GCCTTAGCTC CTGCAAGTTC CCCAGTGTCC 240
GCACCTGTTC CNTTCCTGA CCTTACCTTN CTGGGGTCTG TGAAGTACTG GAGATAAAN 300
TAAAAGCAAT TGTGACANCT GAAA 324

SEQ ID NO:3908

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04633

SEQUENCE DESCRIPTION:

GATCAAATAC CGAAATTGAA CTTTCTAAAA CCTACACATA GCATGCGTTT AAATTCTATT 60
ATATAAGCC CCAAGTGCTT TACCTTCTAA AACATGCTTC TCTATAGGTG CAAAGTTATA 120
AGATATGTAG AAGAAAACAT CCATCAGAAT CTNCTGGAGA NTATGGTCAG AGTCTTAAAC 180

AGGCCAGTG CTGAGTNCTT TGTCCACTTA GTCACACATC TTTGTGGGA ATGGGAAAGG 240
 AAGGAGACAG CCAAACCTCTG ACAANGGCTT TTCCTTATAG ATTAACCCAA AGCCTAGGTG 300
 AGGGTTGATA TATTAATGN 319

SEQ ID NO:3909

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04634

SEQUENCE DESCRIPTION:

GATCTGAGCA AAATGTGAAC TCAGTATGTT TACTATTGCT CTTACTTGAA AACTTTTTTT 60
 CAAAAAAGC ACAAATTAAG TAGTAAATT CATATCCATA GATAGTTCAT TCATTCAACA 120
 AATATTTACC AAGTTCCTAA TATAAGTGAA GGNCCACTTC TCAGATTACT AAGTCATTTG 180
 TATGAATATG TGTGGCAGTG AAGAGAACAG GTCTTTCAAA AAGCATTGA TTATCTTTAT 240
 TTNTTTTAAA TACACTCTCT NATNTTNCTA CTTGTTTTTT TGTTAATCAT AGCAGGATAT 300
 GACAACTCTT ATTTGAN 317

SEQ ID NO:3910

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04635

SEQUENCE DESCRIPTION:

GATCTACTCA GATGTCATNA TACTCCATAC CTGCTTTTCC CATGGCCGCC CTACGGAAAA 60
 TCCCATCCAC AGAGGCCAGG GCTACCCAAG NCCCTCCAGG TGAGCTGGGC CTTTCCTTTA 120
 TGAACCTCCA TCCTCCAGC CAGCTACAGT AGGGCCTCCT CACCCCGTAC CCCACAGCTA 180
 GACAGTGTC GCACTCATCT CCTCCTCCCA CATTNTGGA GCTTTTTTTT TCCTTCNCA 240
 TTGACCTTTG TGTCTCTCG TGATTATTTA TGCTGCCTCC NAAGGATAGA ATTGAAATAA 300
 AATGTTTTCA ACTTAA 317

SEQ ID NO:3911

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04636

SEQUENCE DESCRIPTION:

GATCAAAGGT TCTTCATTCA AAAAGAAGCA ATATCCTTTT GCCTGATATG GGGTGGGAAG 60
 GGTAGGTGGC GATGATATTT CAAATGAATT AGAAACCACC TCCCATTTGA TGATAGCTGG 120
 AGAAATGGAC TGACCTAGAA GTTACAGGAC CAGAACTAC AGTCACCACT AACCTTTCTA 180
 CGTGGCACCC AGCCCCACTT GGAGACATTA TTTTCCATC AAACACAACC GTACTGCACA 240
 GACATCTTCA CTGTCTGTTG CAAAGATTGG AATACGTAGA TTTCTGTTCA AAATTAATA 300
 ATATTTTAAA TACAAA 316

SEQ ID NO:3912

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04637

SEQUENCE DESCRIPTION:

```
GATCCACTGG TAAAGGGCAT CCCAGAGGAC AAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
TGTGTGATTT CATAATACAA AAAAAAGAA AAAAANTTAA ACAAATTCTT GGAAATATCT 120
CAAATGTAA TAACANTATG ATTTTNTC ATGCATACTA TTACTACTAA GCATGTACGT 180
GANTTTTAA ATGTATAGNT GTAACTTTT AATAAANTN GGGGTGTGGT AACCCNGNGG 240
GNCTATGTTT TNNTAACAT AGCTGGCACA GGGTTTAA CAATAATGCC ATAANTATTG 300
CTTAAGGTNC TTAAA 316
```

SEQ ID NO:3913

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04638

SEQUENCE DESCRIPTION:

```
GATCCACCTG CCTGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGTGCCCGG 60
CCAAACCATT TTTGTTAAT TTCATTCTA CATGGTCGTC AAACGTGCCT ATCCAATGAA 120
GCCTTCATAG AAGGCCAAG AAGACAGAGT TTGGGGAGCT TCTGGATAGC GGANATGTGG 180
AGGTTCCAGG AGGGCAGGGT GCCCAGGAAG GGCATGGAAG CTCCGTGTCC CTTCCCCATA 240
CCTTGCCCTA TGCATTTCTT CATCTGTATC TATTGTGATA TCCTTNACAA TTAACTGGT 300
AAACATANAT AAA 313
```

SEQ ID NO:3914

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04639

SEQUENCE DESCRIPTION:

```
GATCACCAGC TCACGTATG TTGCCTTCTC TTTCTTTGT GTGTGTGTTT ATTTAAGTNA 60
TTTTCTTCC TCCTCTCCCT TTTCTTTTG GCCCTCCCTC CCTCCCTCTN CTGCCATGTA 120
ACTGGAGGAT GTGCTATGAG TTGCAAACA GCTGGACTGT CAGGCTGCTT TTTTCCAGA 180
TGTTCTCCT CTGCCTCCCC TTCCCTCCT CTCCCTCCT TTTCTTCTT TCCTTCCTTT 240
CCTTGAGCA CTGAGCACCA TTTGGAAGCT TGAGAGAAAC CAAAATTAAGAGAGAAAGA 300
GAGAGCGTGA AA 312
```

SEQ ID NO:3915

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04640

SEQUENCE DESCRIPTION:

```
GATCTAGAGG AAGTACAGCC ACCCACTGAC ATCTGANTTT ATATACCTNT TGAGTTTGA 60
GTGCACCCAA AACTCGATA AACCAGGTGA AGAAATTTAG CTTCCATGTT CTACTTCAGC 120
```

TAAAACAGCT ACATACAACC TAGTACCCTT GANGTCAGAC AGACATTTC A GTTGCTTACC 180
 TCCAGTACTG AGCCTTGCTT TGGGAAACTA AAAGATTAG ACCAAGTCAC TGCCAGTTT 240
 NGCCTTNGTN GCATTNGTA CAGTTTTTAT ATNTNGGATA TCTTGAAAT AAAGACAGCC 300
 AGCTTTTCAA A 311

SEQ ID NO:3916

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04641

SEQUENCE DESCRIPTION:

GATCAAATCT AAAATAAGTA TAATGCATTG TAATCCAGA GATAAATCCT AGACCCTTCT 60
 TGGCCTCCTT CTNACATAAT TCTAATCCTA CAGTCTCAGA GATGCTGTTG TATCCTGCC 120
 CCCAACCCCA TGATAGTNAT AGTGGTTTTT GCCTTGAAGG AATTGCTTTG TATTTAGCTT 180
 TTCCCCCTCT AGATTTCTAG TTCCTTTTCA GTATTGGATT GGATTGAGA TTTGATTAAC 240
 CTAGTACTCA GGTTCAGATG CTCGCCCTCT TGCAATTTA ACACTCATTG GACAATAAAG 300
 TCAGTNGN 308

SEQ ID NO:3917

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04642

SEQUENCE DESCRIPTION:

GATCTAATGC ATCCTATATC CAGTAAGTAG AATTATCTCT TCATCTGGGA CCTGGAAATC 60
 CTGAAATAAA AAAGGATAAT GCAATAAACA CAGTTGCAGG AAAGTATGTT AGCTATATAC 120
 TATGAAGTAC TCTTAGTTA CTTATGTTGA ATGGCTTAGC TATTAATACT CAAATTGAGT 180
 TAAAATGAAA ATTCCTCCTT AAAAAATCAA ACGTAATATG TATTACATT CATGGTACAT 240
 TAGTAGTTCT TTGTATATTG AATAAATACT AAATCACCTA GGTGTCTATG TTCTATCACA 300
 TCTAAA 306

SEQ ID NO:3918

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04643

SEQUENCE DESCRIPTION:

GATCAGCTGC AGCAGGNTGG GTCCCTCTGC ATCTGTCCAT CACTGCGACT GATGGCAATG 60
 ACTGAGTATA ACACCTTTCT TCATGGTCAA CTCTACCCAG GAACCACGTA GGGAAGGAAA 120
 TTCTGGAAAA CAGTCCCAG CCTTAGCCAA CTTGACATAT CATAATCCAA CAGANCTCAA 180
 CCTTACCAA CTTGGAAATC ATGTACATTT GTCAGGACTG TATTTAATTT CCACATAGAG 240
 AGAAAGCAAA ATTATACTTT TGACCAAACT AATAGANTTA TCCATTAAAC ANACAAAAC 300
 GTGAAA 306

SEQ ID NO:3919

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04644

SEQUENCE DESCRIPTION:

GATCCTCCCA GCTCTGTCTC CCAAAGTTCT GGGATTACAG GCATGAGCTA CTNTGCACAA 60
 GCTAAGAATA TGTGCTTTTA AATCCCATAA GGAAAAAAT ATTTTGGTA AATAAAATTA 120
 AAGCATAAAT ATCATGATT ACCTGACGTT TACCGTAAGC AACATAAAAG ATATGTGATA 180
 CTGAATGACT AAAANGTAGT TTTGGTTAAA GAGAGTTCTA GTTTCATGA GGNCTCTGAC 240
 AATGCTGCAT TTTATTTTNC TTTTAAATGT GCACATTGGT ACANGTTAA CTACTCTACT 300
 CCTGTN 306

SEQ ID NO:3920

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04645

SEQUENCE DESCRIPTION:

GATCCTGTTA TGAAGAGCCC TAAAAAATAG GGTATAGAGT TTGGGCATAT TTCAGAGGTA 60
 ATAAGAAAGC ATTCTGCATT TTAAAGTAA GGTTTAAAAA TGTTTCTAAT TAGNGATACA 120
 GCAAAGTTGG TGTGAGAGGA TAAAGCTGAT ATACATAATC TGAGGAGTTC ATGAAAATTC 180
 ATGTAAANCT GTAGTATGAA TTGGCCTAGG NGCAGCAGCT NAGGGCATAG NGACTTTAAG 240
 ACTTTTCCAA GAGAGTGNAG GCTGGNGATA AATTGTGACT AAAATATATT TTGTGTTGN 300
 GAAA 304

SEQ ID NO:3921

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04646

SEQUENCE DESCRIPTION:

GATCAAGTAA TTCTTTCCT AGGTTGGGTT TGGGGAGGGG GGAAAAGAGG GGCTTTTCCT 60
 AGGAGAACGA TAAGAAATGG AAAGACTCCT TGAAGTGTG CAAGGGAACC TCCTAGCACT 120
 GTGAAAGTCA GAATCGCCTC AGCATTTCCT TGACGCACAT TATGCAAATC TTTTAGCAC 180
 TATTTTAAGT TTGAAACTT TAACAATGAA GGGGAAGGGG AAGNTTTCCT CCAACTGANT 240
 CATTTGTGCA CGTGTATAGC TCAAAGNGCT TAGACTTCAA ATATATCTGG TGAATGACAA 300
 A 301

SEQ ID NO:3922

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04647

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GAGATTAGAG ACGTAAGCCA CCATGCGTGG 60

CCAATAAGAC TGACTTTTAA TTTTCCTTTC TTGTAAGTT CTGTCTTGT TTTGGTATCA 120
 AGGTATATT AGCCTCATAA AAGGAGTTAA GAAGTGNTCG CTCTTCTAT TTTCTGAAGG 180
 AGTCTGCTAA GTATGAGAAC TCTCTATTTC ATGAATGATT GATAAACTC TCTTGGAAC 240
 TGTCTAGACC TTATGGAAAT ATTCAGTAA TAGTTACAAA GCTATTCAAG TTGTCTGGTT 300
 N 301

SEQ ID NO:3923

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04648

SEQUENCE DESCRIPTION:

GATCTCAGTT GGATAGTTGT ACCTCAAAAA AGTAGGTGAG AACTGGCTTC CTCATTGTCC 60
 CAGGATGTCA AATACTAATG ACATAAGAGC TCACTTACGT GCCAAAATTC ACTTTTATAC 120
 TAGTTTTTCA GTGCTTTAAT ATTTGTAAGT NAAATTTNAA AACTCGTATT TACAAACACT 180
 ACTGTAACNT CAGTGAAACT GAATTGTGCG ATTGANGCTT TTTGCTTATC ATAGTATNTA 240
 TTACACTACT TANTTCAGTA AATATATAAA NGTAGCCTNC AATTGANGTG TNTATTGAN 299

SEQ ID NO:3924

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04649

SEQUENCE DESCRIPTION:

GATCAGAAAG GTGAAATGTT TCGAATTTAA AATGTTTAAA GCATGTTTGG TTTTATTATT 60
 TTTACATAAT TGTTTACCAC TAGTTTTTCC ACTAGCTTTT TATTATATAT GTTTAATTAT 120
 GTAATTGTGA TTCCTAGCT TTTATTATAT AATTCCTTTT AAATAATACT ACTATTCATC 180
 AACTCTTGTT GCATAAGAAT TGCAGTTTTT TCTACCAAAC TTTTACTTCA TCTATGAGTC 240
 GTGTTAGAAA TAGTCATTGA AAAAATATAC AGTAAATAT CTAGCAAAAT AAA 293

SEQ ID NO:3925

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04650

SEQUENCE DESCRIPTION:

GATCTGGTGA AGGCCTNCTG GCAGCATCTT CTCAGTAAGA CCTCATGTGG CAGAAGGAAA 60
 GGGAGCTATC TGGAATCTCC CTTATAAGGG CCCNNNGGCC ATTCATAAGG GCTGCACCCT 120
 CATGACCTAA TCACCTTCCA AAGGCGTCAC CTCCTGGTAC TGTCACCTTG GCGGTTACGA 180
 TTTTCATATA TGAATTTTGG GACGGCATAT TCAGTCCACA CCAGGAAGTT CTTGCACNTC 240
 ATAGTCGAAA GTCAGTTTTG TGGCTATAAA AATCTTGGTT CCATTTTCCG CTN 293

SEQ ID NO:3926

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04651

SEQUENCE DESCRIPTION:

```
GATCCACCCG TCGTCGCCTC CCAAAGTGCT GGAATTACAG GCGTGACATG CATGCCCGGC 60
CAACATATAA TTATTATACA ACCCAGCCAC TGCACTCTTG GGCATTTATT CTAGAGAAAC 120
AAAAACTTAT CCCCACTCAA AAGCATGTAC GTGAATGTTC TTAGCAGTTT ATTTTATAAT 180
GGTCAATATC TGGAAACAAT CCAAATGTCC TTCCATGAGT TAATGGTTAA AATAACTGTG 240
GTGCACCCAT ACCATGGAAT ACTGTTCAGC AATAAAATGG TATGAAATGA AA 292
```

SEQ ID NO:3927

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04652

SEQUENCE DESCRIPTION:

```
GATCCTATCT AAAAATATGT AGTTATTAAA CATTCTGTGG ATATTTGTNA ATAAGGTAGT 60
TNCTATGGTC CGAATATCTG GGCCTGCCCC CCCAAATNAT GCTGAAACCT AATCACCAGT 120
GTGATGGTAA TAGGAGGTGG GACTGAGCTC TGATGAATGA GATTAGTGCC CTTATAAATT 180
ATGACCAAAA GAGCTCTTCA CTCCTCCTAC CATTTGAGGA TACAGTGAGA AGCCTTCATC 240
TATGAACCAC AAAGTAGCCC TCATCAGACA CTGAATCAGC CAGTGCCTTG N 291
```

SEQ ID NO:3928

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04653

SEQUENCE DESCRIPTION:

```
GATCTCACAG AAGTTATTCA ATCTCTAGGT TGCTTTAGCA TCTACTTGTG TAGTGAGAAG 60
AGTTATTTAC TTATATTGTG CATGAGGCCG TTTAGATATG TTAAATGCAA AACAGAACTC 120
TTGCTAGCTA AACACAGTAG AACTTGAATT TTTTTTTTNA GAGGTTATTT AATANCAAAA 180
TCAGGTTATT TGTGACTTGG TTGAAGTAAA CGGTGTCTCA GATAAANTAA TTNGTTAAAA 240
GAGTTGCCCA NTTTATGTCT TATANCTTNA ANCAANTANN TANTAATAAN 290
```

SEQ ID NO:3929

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04654

SEQUENCE DESCRIPTION:

```
GATCTGGGAT GTGAGTGTAT CAAATCTTAT CAAATCCATT GACAAATCAG TGGTGCTATA 60
CTGGAATGG CTACTCCTTT GGATGAAGGA CCTCATTTCC CAGTTGCTTG GAACAAANGA 120
GAATTTACAT NNNNCTGTAA GAAGGGAGAG ACGGCAGTTG TTGGTAGACA CACAGNNAAG 180
GGTGCCCAAG AATAATTCTG TCTGGATTAA AGGTCCCAGG GAAGTGACGG NGCCATTTCT 240
GTACCAAGAG GTGAATATAA TTTGCATGTT NGNGTGCAGT AATTAAA 287
```


SEQ ID NO:3930

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04655

SEQUENCE DESCRIPTION:

GATCCCAAGA TGAAGGGGT GGGAGGCTT GCTAGAATGG GAAGGGTCAT AGAAAGGGCC 60
TTGACATCAG TTCCTTTGTG TGTACTCACT GAAGCCTGCN TTGGTCCAGA GCGGAGGCTG 120
TGTGCCTGGG GGAGTTTTC TCTATACATC TCTCCCAAC CCTAGGTTCC CTGTTCTTCC 180
TCCAGCTGCA CCAGAGCAAC CTCTCACTCC CCATGCCACG TTCCACAGTT GCCACCACCT 240
CTGTGGCATT GAAATGAGCA CCTCCATTAA AGTCTGAATC AGTGCAGAAA 290

SEQ ID NO:3931

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04656

SEQUENCE DESCRIPTION:

GATCCTGAAG GGAAGGGGCA GGGATTCTC CTTCTTCTTG GTCCTGGCTC CCAAGGGCTT 60
CTGTCTTCAT CTCTGCATGA GCTCTCCTTC CCAGAGACCA ACTCTTTTNN ATTNATTNN 120
ATTNNATTTT TNAATTTATG TCTGGAGCCT GGCTACTCTG CATTGGGNT TGGGGATGCT 180
GGGTGGGTGT GTGGTCCATG TTCAGCGTTC TAGCAACACG TGTGTGTGTG TGTGTGTAAA 240
GGCTATGCAG CCAAAATACC ATCTGGCCAG ACGGGCCCAC CCACAAA 287

SEQ ID NO:3932

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04657

SEQUENCE DESCRIPTION:

GATCACCTGT TCCTACAGTG ACAACTGGAC CTGGCCCGAA CCCCTGGCAT CTGGCAACAT 60
TATTACCTGT CGAAACAGAA GTAGAGATT GAAATAGAGG ATGCCAGTTC CCATTTCCTC 120
CTGCTGTCTG GAAGGAAGTC TGGCTTTCCA GCCCAACTCT AAGCTCATCT TTACATACAA 180
AATAAGGGTA TGTTTACATG GAAAGCAAAA ATAGAACCAT GGATTACAG AAGGTTCCAT 240
AGCAGCAAAAT ANCAGTGCTT ATGAAATAAA CATTTTAAAT ATTAAA 286

SEQ ID NO:3933

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04658

SEQUENCE DESCRIPTION:

GATCTAATTG TGAAATCGTT CACCTTGTTA AACATCTAAG TAAGTCTGTA GTCGCTCTGC 60
AAACAGCCAT TATATTTATT TACTCTAGAA GAACTGTAG AGTAGTAATT CGTGCTAATG 120
AGAAAAACAA AATACCATGT TCAAAACAGA TGTATTTGAA AACTTAATGA CATGGTTCCA 180

AAACTAGAG CATGTATGTA TGCTGTGCAT CATCTCAGCA GACCTAAAAAT ATCCCCAAGT 240
TGTCCCTTTA CAGCCATCAA TATATTNAC ACTCTGCGGC AAA 283

SEQ ID NO:3934

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04659

SEQUENCE DESCRIPTION:

GATCTGAGTC CTAGGNCGC CCTCATTAC TAGCAGTAAG AATTTAAGTG GTGCATGGCA 60
CATAGCACTG TACTAGATTC TGCAGGGGCA CAAACATAGA GCCAAACACT CTCCCTCTTG 120
GAGAATTTCA GACCCAGAAA AGGCCACGCA GTTCTAACTT TTGTCATCGG TTCCTTTTGC 180
TAAAAGGCAA AGGGTATGTT CTTGCCTAT TGTCCAACAT ACCCCTTCCA AGATTGTGAG 240
AAGATGGGTA GCTGGGCATC ATTAAATATT GAATCAATTG AAA 283

SEQ ID NO:3935

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04660

SEQUENCE DESCRIPTION:

GATCCACAGC TTGCAGGAGA AAGTCAGTGG CCCCAGACAC ACGTAACAGG GTGAGCACTG 60
AAATAAGAGC ACGCTGGGGC GTCCACACCA AGGGACTACG CCCCAGTCTG CCCACCTATC 120
TTTTCTCCAT CATTAACCCA GCGCTCTTTC TCCCTGGACT TCCAAGTACC AATGACCTTG 180
GGGCTTCTTT GCAGTTTAAA GGGAAAATGC TCTACAAANT AATTTCACTN TCAAACANNT 240
CAGCAGAAGA ATAAAATNTT TTTTCTGGNA TATCTAGTAA A 281

SEQ ID NO:3936

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04661

SEQUENCE DESCRIPTION:

GATCCAATCA CATGGCAAAT GCCTCCTTTC ACAATAGAGC ATGGTGCTGT TTCCTCACTT 60
GANCTGAAAC TTCATAGAAG ACCAGGTGAG ACCACAGAAT ACTAGATGNN AATGTTCATG 120
TAGGTAAGCT TTATATTTCC TTCCAAGCTC CATTGCTACA AAGGTGTAAA TAAAATACAT 180
TTTTATGAGT TGAAGTAACT TCATGGTAGA AAATAATAAC TCTGCCTTCA AAAGCAAATA 240
ATGTTTCTTT TGTTAACCAA TAAAGCATAA GANAATGAAA 280

SEQ ID NO:3937

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04662

SEQUENCE DESCRIPTION:

GATCTTTAAA TTTTGTCCCT TAGTTAAGTT CTGTATTTAG TGAATTAATT GCATCCTAAA 60
 AAGTCAAAC TGAAGGACAC ATTTAAATG GCAAATCTAT TTTTACATG TTTGTGAAGT 120
 TTTTATTTT TAGTAAACAG ACCATCAGAA GAGAACAATG GTACAGAGCA GGGGTCAGCA 180
 GATGGATTT GTANNGCATC AACTTGTAAG TATTTTCAAG TTTATTAGCT GTATGGCTCT 240
 GGTTCCTGTT CCCTGTTCCA AATGTAAAG TCTACTGN 278

SEQ ID NO:3938

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04663

SEQUENCE DESCRIPTION:

GATCGACATT TAAAAATGA GGTGAAAGAA AGCTATAGTG GCATAGAAAA AGTATAAAGC 60
 TCAGTTAGTT TTTTATTAT TATTATTAT AAAAGTTAAT TCAGGACTGA TGTGACCTAC 120
 CAGATTTTCA AACATGTGTT AATAGTATAT ATGCCACTGA AACTTAGGT CCTGTATCAT 180
 ACTTTTINCT TTAAGACTTT TTAAGAAATA TTAAGTAAAC ATGTGGCTTG CTCAGTGTTC 240
 AATTGCAAGT TTTCAATCTT GGACTTTGAA AACAGGATTA AACGTTAGTA TTCGTGTGAA 300
 A 301

SEQ ID NO:3939

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04664

SEQUENCE DESCRIPTION:

GATCTCCCTT TTACAGATAT CAGAAAGCAT GAAAAAATA GAATTGGATT TAATGCTTTG 60
 CAGATATTCT GTTTTTTTC CCAATTATTT GATTTACCT ATATACATAT TCTTNNNTCT 120
 TTTTCCTAGC TTTAGAAGCA AACCAACAAA AGCAGTTTGG ACTTTAGTAA CTTTTTTTAA 180
 CAGCAGCATT TAGAACAGTT TGCATGTTCT GAGGAATATT ATATGTGTGT TGGGGGGAAA 240
 GGAATTCACA CTGAATAAAT TTTAGAAATA ATTAAA 276

SEQ ID NO:3940

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04665

SEQUENCE DESCRIPTION:

GATCTTACTG CAAAGGAAAC TGACAGAAGA AAAAGAAAGT GCTTTTGAAT TTNTTCCTC 60
 TGCGTGAATA GACAATGATG TTAATAAATG CTTCAAAGCT GAAGAATCTA AATGTCGTCT 120
 TTGACTCAAG TACCAAATAA TAATAATGCT ATACTTAAAT TACTTGTGAA AAACAACACA 180
 TTTTAAAGAT TACGTGCTTC TTGTACAGG TTTGTGAATG ACAGTTTATC GTCATGCTGT 240
 TAGTGTGCAT TCTAAATAAA TATATATTCA AATGAAA 277

SEQ ID NO:3941

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04666

SEQUENCE DESCRIPTION:

GATCCTAAGC CATAGACAGG CTAATTGCCC ACCACTCCCA GGAATATTGA AATAGCTACA 60
 TGACCATAAT GTGTTTAAAA TGTGGTATGC TCTTGAGATA TTAAAGTTT TGGCAGTAAA 120
 ATACTCTGTT TTTAAGTAG AATGTATTC ATTCATATT CCTCTCACA AGGAAAATGA 180
 CTTCAAGTATA GATTTGTTTT TATTAAGATG CATTTTTTAT TCTTAAGTGG TAGGAAGCAA 240
 CATCCAAAAN TGCTTAATAA AATGCTTTTA AGCTGCAAA 279

SEQ ID NO:3942

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04667

SEQUENCE DESCRIPTION:

GATCAACTGG CTTTTCTCTA TTATGACTTT AGATGAATCG TTTTAATAGA TTTGCTAATG 60
 TTAAGACATC TCTGCATTTC TACAAGAATC TGATGTAGTC ATAGTATACT ATTCTTTTAA 120
 TATACATCTC CTTTCAATGT TAACAGTGGT TATTTATGAT TGGTTGGTCC ATAGTAGATT 180
 TTTATTTTGT GTTCTTATC TGNACTTTCT GATTTTCCTA CAAAGATNNG NGNNNTACTT 240
 GTATAATAAA AATAAGAGCT TTAAATNGTG AAA 273

SEQ ID NO:3943

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04668

SEQUENCE DESCRIPTION:

GATCGCGTCC AGATGGAAAA CGGAAGCAGA GGCTTCTAAT CGTCGCATTT ACTGGCTCCA 60
 GTGCAACACA TCCATCTGAA AACACTCGGA AGTCTGGTGC TTGGAGAGGG TGCCATTGTC 120
 TCTTGACAT AAGGTCATGA CGTGTCTATG TCAAAAGTTC TTATATATTT CTTTATAAG 180
 CTGAAAGAAG GTCTATTTTT ATGTTTTTAG GTCTATGAAT GGAACGTTGT AAATGCTTGT 240
 CAAACAATAA AAATAACGAA AAGTGAAA 268

SEQ ID NO:3944

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04669

SEQUENCE DESCRIPTION:

GATCTNGTGC CTGGAATAG CCTGAGGTGG CTCAGGAAGC GGAGAAAGGG TGCCAGACCA 60
 TTCTCTGGCG GGGACCAGGG CCAAGGCC CAGGGCTGGA AGNAGACCAA GGGCAGCCG 120
 CCCTGGAGGG ACATCAGTGC TTCCTCTTCC ACCCAATTCC CCCACGCGGT TCCATGTTTT 180
 CCCACCAGCC TGTGGCGAA GTTGCTGCTC CGGCATTGAG TACCTNNTNN NNCCAGAGAA 240
 ATANNNGAG TTTCTATTTT ATGTTAAA 268

SEQ ID NO:3945

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04670

SEQUENCE DESCRIPTION:

GATCAGATGG TTTAAGGCTA CAACACGAGG CCAATATCTG TATGTNAAGG AGACAGAAAC 60
 ATCAATGTTT GGAGTATATA TTGACCTTCA TTCTTACTTT CTCCTTATTC TCTTATGTAA 120
 CTGTTAATTT TTCCCTTCCT TGGCTCTATG TATTTAATTA TAATAAGCTT TACCTACAAG 180
 CAAAACAAAC CAAACATGAA CAATGAAAAC TACTTTTGGT CATGTAGCAG AAACAGCAGT 240
 CAATAAAGGA GAGAATGAAA CTAGAAA 267

SEQ ID NO:3946

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04671

SEQUENCE DESCRIPTION:

GATCCTGTGA AAGCTGATGC CCATGTGCCC TGAGAGCTGC CTCTCAATCC CTGTCCCAAG 60
 CCACAGCTAT GGCCTTAATG TCACCAGTGT TCTCACCTC TAGGCCCTGT GCCTGGAGGT 120
 GCCTCCACAG CCGACCAGCA GCCACCCCGC CTGCTTCATC CACATCAGGA GGGTCCGGTG 180
 AGGCTGCAGC AGTGGTTAAG GAGTAACACC TTCTTGTATT AAGGAATTTT AAATAAATA 240
 AAATGTATGT TGGAGATACT GTTAAA 266

SEQ ID NO:3947

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04672

SEQUENCE DESCRIPTION:

GATCCCTAGG TCTTGGGAGC TCTTGGAGGT GTCTGTATCA GTGGATTTC CATCCCCTGT 60
 GGGAAATTAG TAGGCTCATT TACTGTTTTA GGTCTAGCCT ATGTGGATTT TNNCCTAACA 120
 TACCTAAGCA AACCCAGTGT CAGGATGGTA ATTCTNATTC TTTCGTNCAG TTAAGTTTTT 180
 CCCTTCANCT GGGCACTGAA GGGNTATGTG AAACAATGTT NAACATTTTT GGTAGTCTTC 240
 AACCAGGGGT TTTTTCGGTT TAACN 265

SEQ ID NO:3948

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04673

SEQUENCE DESCRIPTION:

GATCTAGNAA ATGCATATAT TTAGCGGGTA TTTGAAAGAT AGAAGCATT TTTATAACTG 60
 AAGAGTATAA CACTTATCTN CTAAAGTAAA TGCTCTCATA ACTTGATAC ATTTTNCAG 120

GTACAAATTC AAAAGTATGT AAGCATTGTA TAATGTGACA ATTGTATAAT TTATGTAATC 180
TGATGCATGA NTCAGAATTT TTATATAATA TATGATTATN GACTTATAGT TGATTAANGT 240
GTTTAANCTT AAAANANAAN ANNNN 265

SEQ ID NO:3949

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04674

SEQUENCE DESCRIPTION:

GATCTCTAAA CTAGCTCTTT TGTTAGTATC GTCTCACAAA CTGATTATTT TCCTCTTTCT 60
TTGGTAAGGT CAATAACTGG GAGATGGACA AACTAGAGAT GGAAGATGCA GTCACATTTT 120
TGAAGACTAA AATCTATTCA GTAGAAGCTC TTCCTGTTGC TGCTGTAAAT GTGCAAAGCA 180
CACAATAAAG TGAATCAAA CCTTTTCATA TTAGGAGACA TGCATTGTA AAAATTAATA 240
AAGATGACAA GTCAGTTNTC AAA 263

SEQ ID NO:3950

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04675

SEQUENCE DESCRIPTION:

GATCCACACA CTACAGGAAA CAGTTGGCTT TGGAAATCCA TCTTTCTGAT ACCCCTCCAG 60
CTGAACAATT TTCTGCATGG GACTCTGAGT TCCTTTCCTT CCCAGAGAGT TTTACCGTAT 120
GAAGCCTGGA GCTGGAGAAC GAAAGAATCT TCACTATAAA CAGAGACCCA TTCATTTATT 180
TCCATTGGCT GTGTTACTGG ATGTTTACT GGTGACGAG AAAGTGGGC ACAATAAAAA 240
AATGGAGATA TGAAGTCAA A 261

SEQ ID NO:3951

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04676

SEQUENCE DESCRIPTION:

GATCTGTTTG TAATACAAGG TATTTGGNCT TGTCTTTAAC TGTATAGTGA TTTGTGGGCA 60
GGCTGCAGGA GCCAGGATAA AGAATGCATG TTGAAATCT NCTCTATACA AATGCATCCA 120
CACTCTCCNG CAAAGGGATG AGTTTCTTAG CCGTTTTCAC TTGATACAAA TGCTATTGTT 180
TCCTTTGGAN GGNGTGAAAA ANTGNANGCT CCACCTGCTC CGTGAGTAGC ATTGCTCTCA 240
ACTGTTGTTT CCAGCCGTTT ACATGTCTAC CCATTCTCTC CCTTANGGTT TTCTTAGGGN 300
GCNGGNGGNT GNNTN 315

SEQ ID NO:3952

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04677

SEQUENCE DESCRIPTION:

GATCTAAACT TGATATGTTA AATTTAAATT TAATTTCCCC AAGTGTGAGT ACTATATGTN 60
 ATTGTAGATA ATTTGCAAAC TACAAAAAAT AAAAATAATT GGCTGGGCGT GGTGGCTCAT 120
 GCCTGTAATC CCGGGCGCTTT GGGAGGCCGA GGTNGGTGGA CCACCTGGGG TCAGGAGTTC 180
 AGGACCGGCC TGGCCAACAT GGTGAAACCC GTCTCTGCTA AAGGTATAGA AGCTNGCCGG 240
 GTGTGGTGGT GGGCACCN 258

SEQ ID NO:3953

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04678

SEQUENCE DESCRIPTION:

GATCCTCACT CAACGAAAAC TCGNTTGGAA ACTGTTCCGN CTGGCAGTCC TTTTTGTTG 60
 TTTTCCATCT CATTTCCTT CCATCTGAAA GTGGCATTCA GCTGACTNGC TCATTTAGAC 120
 NGTTCACGGA GTCTGAATCT GCCAACGTGG TGTGGAGGC TCCACCTGA AAAGGGCCAC 180
 AGTCAGGGCA ACTTTCCCA TACAGGAAAA CTTGAAAATT ACATCAACAG TCTACGTCAC 240
 AGCCAAATTA TATTTCCN 258

SEQ ID NO:3954

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04679

SEQUENCE DESCRIPTION:

GATCCAGTGG CTGCAGCTTC AATCCCAGTG CTGNANTCAC ACATCCATTC TGCCCTGGGG 60
 GACCCTGGAG CCTACTTGTG CGCTTTGCAT TTCATTGATT GACGNCTCCC TTCAACAAGC 120
 ATTTACTGNG CGCCTACTAT GTAATAATGC TAGANGTTAG ATGTACAAAG AAGACAGTTT 180
 TCATCCTCTA GGNACTCATA GGCTAATGGT GAGACACACA GACANACATC ATTATATTAN 240
 AATANGCTAA GNGAAAA 257

SEQ ID NO:3955

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04680

SEQUENCE DESCRIPTION:

GATCTACAAG GCCACACAGA TAATTNCAA TACATCTCAT TTCCTTCTGA TTCAGGCCTC 60
 GGNAGACCCC AAGGGGAAGG AGTTCTCATG GGNCACTATA ATCNATGAAG CTGAAGTTGN 120
 AATATAGANG GCAGATTTAA AGTTACCATT TTTTTTAAA CACCAGCTAT GGTCTTTTCA 180
 AAATTGTACA AGCTGTCAGT ATCACCTGCA CATGAGCAAT TTAGTCTNNN GGNGGNGTGA 240
 GAAGTTTAGG TCTTTNN 257

SEQ ID NO:3956

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04681

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT GAGTGCCCAG 60
GCAGAGAAAGT CCTACACCAC GTGTCAAACG CGGAACACAA AGGGNCACTG TCTTATTGCT 120
TGGTACAGTA CTCCTGTTTG TTGAGAGCCC ATTTACTAGA GCAGCTCTGT TTGTGCTTAA 180
TGAAAGCTCT TTTCTGAGAG GCAACAGAGT GTGTTCTATC ATAAATGAAG CGCTCTTCAA 240
GAACTTCCTG AGCAAA 256

SEQ ID NO:3957

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04682

SEQUENCE DESCRIPTION:

GATCCACCGT CGGATTCCGT CTGCAGAGGA GGACGTAGGG GGCCGTCACA CCCACCAGGC 60
CTCCCTGCTG TGCTTTAACA CAGGCAGAAG AGGTTCATGG CAATATAATA GTCAATGAAC 120
TTTCAGTTTA AATTGTGTAC ATTTTAAAT TGTAAGATTT TTAAGTGTATA TTGATGCATA 180
GTGTGATTCA ATAAATTGCT TGTAATTTAA AACTATTTA ATATTCAAAA TAAATATAGT 240
TATATATTTA TAAA 254

SEQ ID NO:3958

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04683

SEQUENCE DESCRIPTION:

GATCTGTTTT AAAGTTGGGG GGTGGGAAAT TTAGCTGACT AGGGACAAAC ATGTAAACCT 60
ATTTTCCTAT GAAAAAATT TTAAATGTCC CACTTGAATA ACGTAATTCT TCATAGTTTT 120
TTTAATCTAT GGATAAATGG AAACCTAATT ATTTGTAATG AATTATTTAG ACAGTTCTAA 180
GCCCTGTCTT CTGGGAGTTA TCANTNTTAA AGAGANCTTT TGTGCAATTT CAAATGAAGT 240
TTTTATAAGT AN 252

SEQ ID NO:3959

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04684

SEQUENCE DESCRIPTION:

GATCCGGAGT CTTTGAGGCC ATNTTGAAC TACTAATTCA ACTAATCCTG AACCACCATA 60
TTTTCATATT CATCCATGAA GTGTTAAGTG TTCTTATGAT TTAAACCACT TAGCATTGGT 120
TTTTATATTT CTGACAGCCA AAATCTTCCT AACAGTAAAA TAAAGTTTCA AGTTTCATAA 180
GTGCCAATGA TTTTAAATG TTAATAAATT TGTACTAAAT AAAAATGGCA ACAGGAGCAG 240

GTAAACCTAA A

251

SEQ ID NO:3960

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04685

SEQUENCE DESCRIPTION:

GATCTTCTAA CTTATAAATG TCAAATATAT TTTTGTATTA GATTGTGCCT ATNATGAGAG 60
AAATCTTTAA TGTATATTN ATGTATGCTG AACACATTTT TATAATTGN CACACTGGA 120
GGCATGGTCT AGTAATAATA ATGTAATATG TACCTTGCTG GTTANTATAA CTAAGATTTT 180
GCCTTTATTG GGTAGGTAT CTNTTNTTAA TTNTNGCACC NGNTAGCTGN CTTCTACTGA 240
GTAAAGANTT N 251

SEQ ID NO:3961

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04686

SEQUENCE DESCRIPTION:

GATCCAACCT CAAAGTAAAA GTTGAAAAGG GCAAGAGTCT TTTAAGCGGA ACTTCAATTC 60
TNTNNCATG GTTACTTATA TATAATGAAT ATAAATAGAC AAATAGGACT TGGAAAATGT 120
GGTATATTCT AAGTCAAGAT GCTATGAAGT TGTTATAGTT TAAGGGNCAT TCTTAAGAAG 180
GAATTACTTA AGTNCATTAC TCTNCTCATT TCAAGGACAT GAAAAAGTAA AGGATGGTCT 240
GGCACTATTT N 251

SEQ ID NO:3962

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04687

SEQUENCE DESCRIPTION:

GATCCTGGAG ACGCCATTTT CGAGATTGTT CTGCATATTC ATTTGCACAT TGTTGTCTGG 60
GTTGGACATG CGTGTGGGCT TCAGTGTGAG GCTTTTAATA TGTATATCCT GTTATCAATA 120
AAACAATTAT CCAAGTGGTT GAATCCTGTG AGACTTGGCA AGTGTGTGCA AATNAAGTAT 180
ACTTGACTTT TCAACCTCTT CTTTCAATGT NGCNNTTATA TGANATAAAG TAATCCATTT 240
ANCAGTTAAA 250

SEQ ID NO:3963

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04688

SEQUENCE DESCRIPTION:

GATCGACATG AGATACAGAC GAGAGATTAT GTCTCTTATG GCTTTATCAT CAATTAACT 60

TAGCAAAGTC TGTAAATTT ATTTTCAGAGT CTCCCAGCTG TGAAAAGTAG AGTTCCACTT 120
ATGTCATCCA TATCTGCACA GTAATCTTTT TTTTAATCCT AAACTTTCTT AACAGGTTTC 180
TNCTCCTNAT TCTAGACAAT AATGCTATGT GTTTTCCTTG AATACCATGA TTTTAAACTN 240
TTAAA 245

SEQ ID NO:3964

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04689

SEQUENCE DESCRIPTION:

GATCGGTCAT GCTGGGGCCA AAAACATGGC AAGAAACGTC CCACTGTCAA CCTCCCGGGC 60
AAGCGTGTGC ACCTGCAGCT CAGGGCCAGC CCACCACACT GCCTTAGTGA CACTGCAGCC 120
GGGGGAGCCA CAGGCCGCCA GCAGGCTGAG GAACAATGCC GTGTGACCTT TCCNNCNNNN 180
AAAAACAATA AACTGCAATT TTTATTCAAA TAAAAAAGG GTAAAAATAA AAGTTAATAA 240
GAAAA 245

SEQ ID NO:3965

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04690

SEQUENCE DESCRIPTION:

GATCATGGAA AGTTTCAGTG AAAACCATCA TGCTGTCTTC CAGAACCACG TTCTCCTCTG 60
AGGAGGATGA ATGAAGGTTG GGTTCAGTC ATCATGCCTG CCCTTTTTTT CTTTGTATTG 120
TTCTTAAAGC ATCTCAGAGT CCTCTCATGG AATTTGGTTT CTATTTCCCC TCCCAATCTC 180
CACCTCACTC CATATCATAA GACATGTCTG CATTCTGGAA TATTAAACGT GGACATGGCT 240
CAAA 244

SEQ ID NO:3966

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04691

SEQUENCE DESCRIPTION:

GATCATGCTT TTCCCTACTA AACTTCTGTA ACTGCATGTA TGATACATTA TTGCAGAGGT 60
AAGAGATAGT TTAATGGATT TTTAAAAACA AATTACTATA ATTNATCTGA TGTTCTCTAG 120
TTGCATTTTG CTGAAATGTA GTGCTGTTCT AAATTCTGTA AATTGATTGC TGTGAATTA 180
TCTTTCTGTT GAGAAGAGTC TATTCATGCA TCCTGACCTT AATAAATACT ATGTTCAGTT 240
TAAA 244

SEQ ID NO:3967

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04692

SEQUENCE DESCRIPTION:

GATCCAAGCC CTTGTTTCAGA TTTGGTGCCT GATAAGACAG GGGTTTCTCT TTTTGTGACC 60
 TTTATTATTA TTATTTTGTT AACTGTTGTA ACCAGTTAGC TGTTGTGTTT TAAGATAGAA 120
 AGGAACAAGA CTAAAATTGT AAATACTTG TAAACATCAG CATTGTACT TGAATAGTAG 180
 GATTTTAAAG GGCATTGATA GCATACCAA CAAAAGGCAA AATAAAGTGA CCTTTTATA 240
 AA 242

SEQ ID NO:3968

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04693

SEQUENCE DESCRIPTION:

GATCTTCCTC CCATGAAAGA AAAANCAAGA ACCAGAGGCG TAGACTNACT NAAGACACAA 60
 CTCCTGGCTT TCTNAAGCTA TGGACTTGGA TTGGATTGCT GGGGGTTTTT AGAGAAAGGT 120
 GACAAATTC AGTACCTCTG GCATGCTGTC CCAGGAAACT AGGGCTCCCA CTAACCTATG 180
 AGGTTTTTAA ACACATTGAA AATGACATGA CACCTAAAAT AAATTGGAT TTGCTCATAA 240
 A 241

SEQ ID NO:3969

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04694

SEQUENCE DESCRIPTION:

GATCAAGGGT AAGAATAAGT ATCCACCTCT TTCCTTTTAA AAATTTTCCC TCAGAGTCCC 60
 TATGTTGCAT ATTTNATTCT GTTCAGAATC TAACCTTTCC CTAAGGCTTA TCTTTCTAAC 120
 AGATACTAAT TATGAATGGG CATCAACAAC TCTAATTAAC CCATTCTTTA AACTCCTCT 180
 GGGTGTTC ACAAAGAAA TTCTCCCATG TTATGATGTG TGTGGTTGCT AAAAAGTAAA 240

SEQ ID NO:3970

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04695

SEQUENCE DESCRIPTION:

GATCCAGACT GGCCAGATTT GAACTCCAGC ACTATTCCTT GATACCTCTG AACTTGGA 60
 CAAGTAACTT AGTCACTATG TATGAAAAGA GATAATAATA CTAGTACCTT CCTCATACTA 120
 CAAGACTACA AGATGTGGTC AAGACCAGAA ATATATAAGC ACTGTAAAAA CAATGTAAAA 180
 CCAAATGNAA ATTCTTCATT TGTATCTNCC AAAAATAAAA AAATAGCTAT TTGGGAAA 238

SEQ ID NO:3971

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04696

SEQUENCE DESCRIPTION:

GATCAACCAG AAAAAAAAAA TATNATGAAA TGGATACACA CAGTGGACAC CTGTGAAGTT 60
ATCTTAGCTC CCCCAAACT GAGANGTACA AATTAGTCTC CAAACCTAAT TACCAGTTTA 120
CAGGAAACAT NGGGAATAAA AGANCAANTT AACAACACAA AGAAGCAAAC ANCCAANTGC 180
ACAGTTTGGG AAATTCTGCA GAGGTAATGG CCTAGTTTTT TANCCAGTAC ATGTCAAA 238

SEQ ID NO:3972

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04697

SEQUENCE DESCRIPTION:

GATCATAAAT GACAGGTGTG TGGAGGTCAT TGCAAAGGAA GGACAAAACC TGAAAGAGCT 60
ATATTNGGTG TCCTGTAAAA TCACAGATTA TGGTAGGTAA TGANCCATTT NCCTAATCCT 120
TTCTAAGANT AAAANGTTAC AAAATCATTG AAAGTNCTTA AAAGGAAATC AAGANCTATA 180
TCATAGAGAC TGTCTATCGT CACTTATGCT CATNGTGACC NTACCAAANA NTAAAN 237

SEQ ID NO:3973

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04698

SEQUENCE DESCRIPTION:

GATCGTAGAA GCCAAATGAA ATGTGACATA TCTACTGACT GATGACAAGG GAATTCATT 60
AGGAAGAAGG TAAAGAAACA TCGTTGAGTA GCCTACCTTG ATTTCTGTCA AGTTCATAAC 120
CAGCTTCATN CTTTAAAGG CTTCAGGTTT GAAATTAAGT CAACTGCATG CAGCTTTGCT 180
GATAAATGAA TAATTCTCTT TGATGCCATT TATGAGAAAA GACTTCAATA TCTGTN 236

SEQ ID NO:3974

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04699

SEQUENCE DESCRIPTION:

GATCTTCCAG TTTAGGAGCA ATTTGGTGAA AGGAGTCGGG TGACCAGAGC TGAATAACC 60
GTCTGCATGG CTGCACCTG GTANCAGAGT GGNGACAGAN GTAAGGATAG TGTGGAGGGC 120
ACAGTTGCAA GTTGAGTCTT TCCATGAGAC AATGTGCCAA AGTAAAAAA AAN 173

SEQ ID NO:3975

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04700

SEQUENCE DESCRIPTION:

GATCCCTAAA TAAGTAGTTA TTCTGTTTTT CCTGATTTN AACTTTTACT AATAGAATGA 60
GAGTAAATAT TTTGGGTAT GTGGCTTCTT TTGTTCAACA TTGTTTAAAG ATTCATCCGT 120
GTTGCTTGTG TAGCTGTAAT TTGTTTTAAT CTTTATAGTA CATTCAGTTT TGTNAATGCT 180
TATTGTAGGA CTGTACCATA ATACAGGCAG CATGCTGCTG ATAAACACTG GAAA 234

SEQ ID NO:3976

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04701

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCGGTCTC CCAAAGTNCT GGGATTGCAG GTCTTGGTCT TGATNCCAAG 60
TTTGGGAAAG NAGCTAAGAA GACATCCCAC TAGGAAGAGA GAGACTACCT CCACATCAAA 120
AATATTTAAG TNATTATCTC AAACAGTGAC ATCTCTGGG AAAATGGACT TAATAGGAAT 180
ATGGGACTGA GTTCCAGTCT TTTTNAATAA AATAAAATCA AGCAANATCA TAAA 234

SEQ ID NO:3977

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04702

SEQUENCE DESCRIPTION:

GATCAACCCC GTGAAGGTGG CCAACCTGGT GAAGGCGTAC GTGGACAAGT ACAGGCACAT 60
ANCNCAGGCA CANGAAACCA GAGGCCGGGG AGGAGCCGCC CACGCAGGGG GCCGAGGGCT 120
GAGGCCAGGC AATCAGGGG TATGCCNGGG AGCTGTCGGG AGTGGCGGGA ATCGGGGCCA 180
TGCCCGGGGA GCTGTCGGGA GTNGCGGGAA TNGGGGCCAT GCCCGGNGGA GCTN 234

SEQ ID NO:3978

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04703

SEQUENCE DESCRIPTION:

GATCATCGCA TTGAAATGGT TTTGGGAAGT ATGGAAAATT AAATGGATTT TTGAGACACT 60
AGTTTATTGG CTATGCAAGT GACAGTTTG AAAAAGGCTG AATCTTATTG TTGGAGCCTA 120
ATGTAAATGC ATATATAAAT TCTGACTGTA TTTCAGTCAG TGTTCCTTG GAAAAATTCC 180
CAGATTGGAA GCAGAAAGTA CAGACCAAAT AAAGATTATT CACCCACCAA A 231

SEQ ID NO:3979

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04704

SEQUENCE DESCRIPTION:

GATCGCTCTC ACTGGCCTGC TGCAGATNAG CCAGGGGGAG CCTAGGCCCA GCTCCTCCGC 60
GGTTGGCCCC CCAGACCATA CCTCTGACCC ACCCAGCCCC CNNTGGTAGC CCCAGCAGTT 120
CTCAGGGTGC TGACCTCTCT CTCCACAGA CCCCAGACAC CCATTGTCCA TAGCCTTCTN 180
AGGGCAGAGT GGGCTGGTTG TGTGACAAT AAAACAGTGT TGGTTTGCA A 231

SEQ ID NO:3980

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04705

SEQUENCE DESCRIPTION:

GATCAAGTCT TGTGAGTCG TGCCCTCTTT CCCCATGTTT CCTGGGAAGA CGGGTGGTGG 60
CAGAGTGAGA AGGCCACTGG TTCTGTGCCG CAGCACGCAA AATTAGAAT TCTACAGACT 120
AGCTCTATAC GTAGTGAGGA CCCAGATTTA GAGAACTGA CCAATATTTA TCTCCGCATT 180
TGTGTGTGTG TCCAACCTCG TAGGNAATA AACCANCAAG ACAAATGAAC TGTGCTTCCA 240
AA 242

SEQ ID NO:3981

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04706

SEQUENCE DESCRIPTION:

GATCCACCTC TACACCAGCC CAGGAAGCCC CATCTGTGCC TGCCCTCAGG TGGTCCACCA 60
GTCTCCCCCT TTGGTTCCCT TCCAGTCTNT TCCCCCTTTC TATCCCAATN ACCAATAGAA 120
ATGCTAACAT CCCTGCCTGG TAGCCAGACT AGCCCACTAA AGCTCCCCTG TAAATGGGGG 180
CTCCATTAGT TCTGCTGCCG AGACTAATAA ACGATTGGT TGGCTCTAAA 230

SEQ ID NO:3982

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04707

SEQUENCE DESCRIPTION:

```
GATCTATTCC CACATGANGT GCGCCACCGA CACGNAGAAC GTCAAATTTT TTTTCGACGC 60
TGTCAACCGAC ATCATCATCA AGGAGAACCT CAAAGACTGT GGCCTCTTNT NAGGCAGGGC 120
CTGTNCTGCA GTCGGGGACA AGGAGCTTCC NTTTGGCAAG GCCGGGGCAC AATTGCACT 180
CCCCTCAGCT AGACGCACAG ACTCAGCAAT AAACCTTTGC ATCAGGAAA 229
```

SEQ ID NO:3983

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04708

SEQUENCE DESCRIPTION:

```
GATCCTCCCT GCCAAGTCT TACTTCGTGA GCTGGCCTTG CTCCCCATCC CCCAAGTGCC 60
TCACCAGTCC CCCAGACTGG GTGAAGGTAC AGCTGGCTCC TTTCGGGGGT GCAGCTTCAA 120
CTCTCTCGGC GGTAGGGCGG TGCCATCCCC ACCCATAGGG CTGGCTCACA TCCAGTCACT 180
CCCAACAGCG TCCANCACAC AAATAAAGA CCCTTTGGCC CTGAAA 226
```

SEQ ID NO:3984

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04709

SEQUENCE DESCRIPTION:

```
GATCACTTGN GGTGAGNCGT NCGAGACCAN TCTGGTCAAC ATGGCAAAAC CCCGTCTCTG 60
CTAAAAATGC AAAAATCAGC TGGGTGTAGT GGTGCGTNCC TGTAATCCCA GCTACTGGGA 120
GCTGAGGCGA AAGAATTGCT TGAACCTGGA AGGTGGTAGG CTGCAGTNAG CCAGGATTGT 180
GCCACTTCAC TCCAGCCCGG GCAACAGNGC AAGACTCTGT GTCAAA 226
```

SEQ ID NO:3985

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04710

SEQUENCE DESCRIPTION:

```
GATCCTGGGC CAAACTGATT TACTATTTTA AATTTNAGTT TTAATGNGAC AGGGCCTTGC 60
TATGTTGCAG GGTGGTGTG AACTCCTGGC CTCAAGCAAT CCTCTGCCT CAGCTTGCCA 120
AAATGCTGGC ATTACAGGCC TGAGCCACTG CCCCTGGTCT GATTACAAT TTTNAATTGA 180
GGGTTAGGGA GTCATAATAC CANCAAAGAT GGTAAGGA ATTN 225
```

SEQ ID NO:3986

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04711

SEQUENCE DESCRIPTION:

GATCATCCTC TAAACATTTT ATCATTTTATT AATCCTCCCT GCCTGTGTCT ATTATTATAT 60
TCATATCTCT ACGCTGCAAA ATTTGGGTCT CAATTTTAC TGTGCCTTG TTTTACTAG 120
TGTCTGCTGT TGCAAAAAGA AGAAAACATT CTCTGCCTGA GTTTTAATTT TTGTCCAAAG 180
TTAATTTTAA TCTATACAAT TAAAACCTTT TGCCTATCAA A 221

SEQ ID NO:3987

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04712

SEQUENCE DESCRIPTION:

GATCATCATC TGTGAAGCAT CATGGTAGCT TCCAAGCATT TCGGCCCCAC TGGCCAGNTG 60
CATCCAAAAC ACATTCAGGA AACCCGAGAG TTGTAAGTTG CACATGTGTG GCCTACAGTG 120
ACTTCCATGT AGTAACAGGG NTGNGCAAGG CANGNTCTCC ACCAGACTTA AAGCATTCAA 180
CCACTCTGCC CCCAGGGCGA CACTGGNCAT GTGGTTCAAT N 221

SEQ ID NO:3988

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04713

SEQUENCE DESCRIPTION:

GATCTTTTTA AGATNNNAAT AAAGAGCTTT CCTAAATAAA ATAAGCAATA TTAACTTTA 60
GAAACTGTAC TCTATGAAAC GTGTTTTATG AAANCATCTN TTACAAAAG TGCTTACTTA 120
ACTCAGCAAG AAAGGTTTAA TGTACACATT TNACANCTAA ANTCAAAACC TACAAGAAAC 180
TGCACTGCCT TCACTATTTA CAAATCGGCC TACAAGGAAA 220

SEQ ID NO:3989

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04714

SEQUENCE DESCRIPTION:

GATCTGGCTA TCTCATTGAT TATATTTTTC TTCCCTTATA CTGCAAAGTA CATCATAGGT 60
ATAATTTTAT TTTGAGAAAG AACTATATTC CAATTTTACC TATATATTCC TACTGTAATA 120
ACCAAGAGGA CATTTCAAAA ATGTATATGC TACTATTTTC AGAAGGNTAT AGATACTAAA 180
TCTTTTTAAG CCTTATTTAA CTATGTTTAA TATTGAAA 218

SEQ ID NO:3990

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04715

SEQUENCE DESCRIPTION:

GATCTGTAA ATTGGATTT ACATGTACAT TTGAATGCCA GAATTTCTAA ATAAATCCCC 60
 TGGTTAGGAA ATTTAAAAG TCAAAGCTTG TTTCTTCAA CCACTACCTT CTACATTGGT 120
 TGACTTAGAC CGTAAGCTTT TTAAGTTTCT CATTGTAATT TACCTTCTCA TGCAGATTGC 180
 TGATGTTTTA TTAAACCTTA TTTTACAAA AATGAAA 217

SEQ ID NO:3991

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04716

SEQUENCE DESCRIPTION:

GATCTTATTA GACTCATACA TCTAATTATA GAAATACATA GACTTGATAG AATTTNATTT 60
 TCAGGCNTGA AGAAATATTC TTTGGAAAAG CTAAATTTTT GGTGATTGAC ATAAAGATTT 120
 ACTNGCTCAT ATTANCTNGG GGGGNTAGTA CTCTCCAAGA ATTAATGTGC CCTAAAAATT 180
 TTCTCCAAA ANCTTATCCT TATCATGTGA TAATGANGAN CATTTGATTT CTTGAAAGGA 240
 GACTGCTGTA GGCAGCATCT GGAATGCAA NTNNGGGNN N 281

SEQ ID NO:3992

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04717

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATAG CCATAGTGAG ACACCAACTC TCTACAACAG CAAAACAAAA 60
 CAAAACAAAA AACATGCAG CTGGGCATGG TGGTNACACC TGTGGTCCTA GCTACTCAGG 120
 AGGCTGAGGT GGGAGGATTG CTGGAGCTAG GATGTCAAGN TTAGTGANCG TATTGACCA 180
 CTNACTCAGC TGGNAACAGA NGAGACCTGT CTAGAAA 217

SEQ ID NO:3993

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04718

SEQUENCE DESCRIPTION:

GATCATTTTT TGAGGCAGGA GCATAACACC TTCTCTAGGA TTTGTCAGCT TCTAAAAAGA 60
 GCCTTTTGTA AGGACTTGTA TGAGCTTGGG TTTCACCATC ATTACTGGGG AGGCACTAAG 120
 ACTGCACATA TCTCTGGGTG AAGTAATGTC TACACANCAC CTTTCATAGC AATAGTTCCC 180
 AGCTAGCATA CCTGCTTCTG CCAGTCCAGG GCCAAA 216

SEQ ID NO:3994

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04719

SEQUENCE DESCRIPTION:

GATCCAGACT ATAATCCTGC TGACCCAGAG AGTGACTCAG CTGACTAATG GACTGTCCCC 60
ATCTGCAGAG AGGCTTGACT GCCACAGCAT CTGTGGCTAT GCTCAGAGGG TTATGATTTT 120
CCTTTCTTTT NNNTAAGAAA AAATTATTTT CAGGAGAATA TTCTTCTGAT AGCTTTCATC 180
ATTGAACTTA ATAAACTGAC CTAAAATTT CAAATATAAA 220

SEQ ID NO:3995

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04720

SEQUENCE DESCRIPTION:

GATCTAAGGA AGAACTTGCT GCTGCAGTAT TGAAACTGTG AAGAACTGAC ATTTGAAGAA 60
AAATAGATTA CCGTTGCCGG ACTAGAATGG GCGACTGCTT GGAGCCAGTG CTTGTTTTTA 120
TCTAGGACAC TTACTGTCCT GTGAAGTAGA ATACATTAT CTGCATTTAG TTTGTTAATG 180
TCTGAAATGA ATAAAAAGAG GAAATTGCGA TTAAA 215

SEQ ID NO:3996

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04721

SEQUENCE DESCRIPTION:

GATCCAGAGA CAGAGGCAGC CTGTCTTTTC AGTTGGTTTC TGCTTTTAAT TTA CTGTAC 60
AATTCATTGT TACTGTTCTG TTTTTCCTAT TAATCTTTTG TCAACTTCCT GATTATGTAA 120
CAAAGTATGT ACAGTCTACT TTTGACCTAT TTTTATCACA GTATNATTNA TTNCTTCTTT 180
CAATAAAGTA CTNGNGCATA TTTCCACTGC CAAA 214

SEQ ID NO:3997

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04722

SEQUENCE DESCRIPTION:

GATCCGNAGT TCAAGGGAAG AGGAAGTTGC CTCTNAGCTC CATCTCTCTG CGCTGCTAGA 60
CATGGTGGAC ATTTGAGCAG CCTGACCTGT GGGGAGGGGG TCTCTCCGA AGAGTTTCTG 120
TTTTTACTCA AAATAATGTT ATTCTCAGAT GCTTGATGCA CTGTTGGAAA NGGGGATTAA 180
TTTAATCATG CAGATAAACC ATTTAAATGT CAAA 214

SEQ ID NO:3998

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04723

SEQUENCE DESCRIPTION:

GATCGAAACC AGCCTGGTCA ACATGGTAAA AACTGTCCC TACTAAAAAT ACAGAAATNA 60
GCCAGCAATA CAAAAATTGG CAGCTGTAGT CCCAACTACT TGGNAGGCTG AAGCACAAGA 120
ATCGCTTGAN CCCAGGAGGT GGGAGGTTGC AGTGAGCTGA GATTGCGCCA CTGCACTCCA 180
GCCTGGGCGA CAAAGCGAGA CTCTGTCTCA AA 212

SEQ ID NO:3999

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04724

SEQUENCE DESCRIPTION:

GATCTCAGNA ATTGGAAAAA TTGTCCTGTC TGTCACCTGT TTTGTTGCCT TAATAAGCAT 60
CTGAATGTTT GGTGTGGGG CGGGTTCTGA AGCGATGAGA GAAATGCCCC TATTAGGAGG 120
ATTACTTGAG CCCTGGAGGT CAAAGCTGAG GTGAGCCATG ATTACTCCAC TGCACTCCAG 180
CCTGGGCAAC AGAGCCAGGC CCTGTATCAA A 211

SEQ ID NO:4000

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04725

SEQUENCE DESCRIPTION:

GATCAAGGCT ATGAACATCT TGTGAAGTAG GATGTTAAGT CTGCAAATAT CAGAGTGAAT 60
CCAACTTAT CAATTCAACA CTGGATTGTA AAACAGCTCA AAAAAAGACT AAAACACAG 120
CTCTACACTT TAGGAGGTTG GGGCAGGCAG ATTGCTCGAG CTCAGGAGTG GGAGACAAGT 180
TTAGGAAACA TGGAAAAACC CTGTCTCAAA 210

SEQ ID NO:4001

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04728

SEQUENCE DESCRIPTION:

GATCAGCATT CATACCATAG TAACTGATGT TGAAAACAGC ACAAATAAAC CAGAAGTTGA 60
AAATGGCAAT AACATGCTAA AAATTTGCAA GTCAATTTGA NNACACTTGT CCAAATCTTG 120
ATTTTTTTTC CTTCTCTATC GTTCCCCCCC CACCACCAGC TTTATGGAGG TATAATTAGC 180
AAATAAAAAG TATACATATT TAAGGTAAA 209

SEQ ID NO:4002

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04729

SEQUENCE DESCRIPTION:

GATCCTATGA ATTAATTCAG AAAGCAACTA AAATAACAAT GGCCTGCCAA ATGTCATTTT 60
 GTAAATATAC GTCTATGACT TTAGGAGCTG TCCTGGTTTG AAAACATGAG GACAGTTTAT 120
 CCATTGGATG CCATCTATNT AGTCCCAATT AAGAAAGTTG TTTTTTTGTG AGAATGACCA 180
 AGGTAAATTT AAATATACCA TTCAAACAN 209

SEQ ID NO:4003

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04730

SEQUENCE DESCRIPTION:

GATCGATGAA GCACTTTTTT ATTAATATTT TCCTTTGTGA AAGGAGGAAC CGTAACTCTC 60
 CATAGCTGTA CATATAACCC TTTTCTCCTA AAGAGGAGTC AGTCAGTGCT CCTATATTTT 120
 TCATTTTTTG TCAAAGCAAG AAGTAAATAC TTTAGAATTG TTAAATATAT AAATAAGCA 180
 AATAAGTTG AGTGTTCAC ATGGTAAA 208

SEQ ID NO:4004

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04732

SEQUENCE DESCRIPTION:

GATCTTTCCA CATACACTAC ATTGTATTGT TCAAAATTCA TAGAAATNAC TTGCAATATA 60
 TTGATTTAAG CCTTATGTAG TGACTGTTGC TATATTTAAA GTAGCATTTT NAGTTTGCTG 120
 TTTTCTCTCA CTGCTTAATC CTACAAAAC CAGCCATCTG CCTAAAAAT AAAAGAGCAA 180
 AANTGNATCA GTGCAACCGG TATACGN 207

SEQ ID NO:4005

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04733

SEQUENCE DESCRIPTION:

GATCCACATC TCAAAGAAGT GGGACTTCAC CAAGGTNCAA TGCTGATGAA TTTGAACNCA 60
 TGGTGGCTGA AAAGGGGCTC ATCCANGAT GGCTGTGGGG CAAGTCATCC CAGTCGTGGC 120
 CTATGGCAAG TNNNGGCCT NACTCATGAG GGCTTCAATG TGCTGCCCCC TCTTAATACT 180
 CACCAATAAA TTCTACTTCT GTCCAAA 207

SEQ ID NO:4006

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04734

SEQUENCE DESCRIPTION:

GATCTACATT ATTCAGCAGC CTCGAAAATG TTAAGCCTGG ATTTAAAACA CAGCCGTCTG 60
 GCCAGCTGCC TCGAATATCT GACAGCTTAG CAAAAGGGC CANAGCTTTC CATAGGCGTG 120
 CTGCACTTGC TTGGTAAATT AAGCAGCTTT TGTATCTTCC CCTTTGACTT TAGGTAATAA 180
 AGCATCCAAA CTTGTAAATC TGAAG 205

SEQ ID NO:4007

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04735

SEQUENCE DESCRIPTION:

GATCTGGGAT AAAACCAGAC TGAAAGGAAT ACCTCAGAAG AGATGCTTCA TTGAGTGTTT 60
 ATTAACCAC ACATGTATTT TGTATTTATT TTACATTAA ATTCCCACAG CAAATAGAAA 120
 ATAATTTATC ATACTTGAC AATTAAGTGA AGAATTGATA ATAAGTGAAT GTGAAACATC 180
 AATAAGACC ACTTAATGCA CAAA 204

SEQ ID NO:4008

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04736

SEQUENCE DESCRIPTION:

GATCTNCTTT TTATCACTAT AGTTTGTATT CCTAGAATTG TATATAAATG GAATCCAACG 60
 GGCACAGTGA CACATGCCTG TAGTTCCAGC TACTTGAGAG GCTGAGGTGG GAGGATTCCT 120
 TCAGCCCAGT TCAAGGCTGC AATGAGCTAT GACCACGCCT ATGCACTNCA GCCTGGGCAA 180
 TATAACAAGA CCCTATATCT AAA 203

SEQ ID NO:4009

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04737

SEQUENCE DESCRIPTION:

GATCTGAAAA GAATTNTAT TTAAATTGGG TTGAGGGAGA GTAGATACAA TGAAACCTTA 60
 AATTTAGCT TTNATTCTAA ACCCTTTAAT TTTTATGGG TTATGTTTTA CTTGGCAAAA 120
 CTATCTGTGT TTCTNTCTTA GTGATATAGC ACCCTTAAAG TAACTTGAGT GGTAAGGAA 180
 ATAAAATACA CCAGTTTTC AA 202

SEQ ID NO:4010

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04738

SEQUENCE DESCRIPTION:

GATCCTCTTC CTGCTCCAGT TGCTGGCCGA CCACGTCCCT GGCCTTGGCC TGGTCACAAG 60

GCCGCTCATG GATTACTTGC CCACCTGGCA GAAAATCTAC TTCTACAGTT GGGGCTGACA 120
 GACCTCCCGG AAGGAGGGTG TGGGGAGGGG TGGGGCAGGG AGCCCCTCTT CCCTAATAAA 180
 ACTGACTCCG GCAGCGTCAA A 201

SEQ ID NO:4011

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04739

SEQUENCE DESCRIPTION:

GATCCTATTT GTACAAAAAA ATGTAAACT TAAAATTGCA CAAAATTTGT NACCTGTACC 60
 AGCTTTTAGA ACTGTTTATC TTATCCTCCT CAGTGATACA TCATGAAGTT GTGTGCTTTG 120
 CCTAAAATGC CCAGTTACCT GAAATTGTAT AAATNCTTGC CAAAAGTGTT TGAACCTAAT 180
 ACAAACTTCC CATCTCTTAA A 201

SEQ ID NO:4012

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04740

SEQUENCE DESCRIPTION:

GATCTCATTT TATTTAGCAT CAGCTCAAGA AACTNAAGTC TTAGTGACACA GTATCACAAC 60
 AAAGAAAAAG CTTTGTTTTT ATAAGTGGTA AAAACAAGAA AAGATTCTCA TCAAAATGAA 120
 AATATAAAT TAATCATTTT TCACCAAAGA GTATGCCTGG GAGCCTCCAG CTGTAAAAAG 180
 NCAATGCTAT TACTACTTCT N 201

SEQ ID NO:4013

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04741

SEQUENCE DESCRIPTION:

GATCCAAGTT GCCCTTGGGG TATAAACTT GACAGCAGAG GGCCTTCAGG GTCCCTCAGC 60
 TGCAGTGTGA AGTGGGACAC ACAGGTGAGA CTCCATCTGC CCTGGGCAGG TTCCTGAGCC 120
 TTNGGGGACC AGTTCACCCT ACATCCCAGG CTTCTGTTGT CCCTTGCCTG CCTGTAAGGA 180
 ATAAAGTTGC TTTGCTTAA 200

SEQ ID NO:4014

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04742

SEQUENCE DESCRIPTION:

GATCTGACCT TTTCTTCAGA TACATAAGCA TTATTTTCTC TGTTTAGGTC CAAGGAAAAA 60
 CAAAAGGTAA AGGNAATAAA GGGAAATATAC ATAAGGCAAA CATTTCTCTT TTTTTTTTGC 120

ATTATATCTT ACCAATTAAT TAAATTGTGG CCTTTGTTAT TATAAATGTA ATGATTCATT 180
AAACTATATT ATGTAATAAA 200

SEQ ID NO:4015

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04743

SEQUENCE DESCRIPTION:

GATCCTATGA CTGACATCAA CTAAAATTTA AAAGAAGAGG AAGACTCAGT TGGGAAATTT 60
TNCCATGAGG AAAATGTGCT TTGGTGCAAG GTACAAGGCC CACACCTCT CTGAGAGATA 120
CTATGATTAA AAAAGCTTTA TATCTTGGGA TTTNCACAA CTGATAATGT GCAAAGNTAT 180
AAACNGATTA ACTTGTCAAA 200

SEQ ID NO:4016

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04744

SEQUENCE DESCRIPTION:

GATCTTTCAA GAATGAACCA AGGNTTTTAA AAAGAATTAT AGGAAACACT TCATTCTTTA 60
TAAAACTTTC TATAATGCCT TATTTGAATG TTAATCTTAT GTGCTTTCTA AAAAATGTTG 120
TGAAATACCA AACTTATGGA TTATCACTAG GTTATCAAGC ATATATNAGT CTTTATCAGA 180
NTAAAATGAA ATTNCATAAA 200

SEQ ID NO:4017

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04745

SEQUENCE DESCRIPTION:

GATCTGAGAG GCAGTAAAGC AGTGATGAAG ACAGTGCAGC AGAACATTGA AGTCCTGATT 60
GCAGCAGTGA CTCTGCAACC TTGGATAAAT TATTTTCANTC TTTATTTTGT AAAACGGAGA 120
TAACGGCCTA TAGGATTNTN AAGACTGANT ATTTTAAAAG NGCTTAGAAT GGTGCCTGAC 180
AAATGAGNNN CANTAAATN 199

SEQ ID NO:4018

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04746

SEQUENCE DESCRIPTION:

GATCATGTGA TTTCTATTTT TNCACACAG GGTAAGGGAC GAGTCTTCTG GAAGGCTCTG 60
CCATGGACAT TTGCCTCGG GCTCAGAGGC CCCACCCTGC CCCACACCTG CCCCTAATCA 120
CTGCAGTGTC CAGCCCAGTG TTGAACAGAT TGTAGCGTTC TGTCTCATTG CGAGCAAATA 180

AATAGACTTT CATTGGA

199

SEQ ID NO:4019

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04747

SEQUENCE DESCRIPTION:

GATCACGCGG CATGTATTGA GGTGTGGCAT GCAGCATTTT GGAAGGAAAA TTGAAGACGT 60
GTTCAAGAAA ACATGAACAG AAGCAAATNA TGAAATGAG CATTCTACTT GATGTTGATA 120
ACATCACAAT AAATTATGGA GAAAAATACA TATTTGGCTA ACTTTTAATT GCTGANCAAT 180
AAAGTGTITT CTTTAAA 198

SEQ ID NO:4020

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04748

SEQUENCE DESCRIPTION:

GATCCCTACC GCCAGCTGCG AGAGAAGGAC CCCAAGTACA GTGCTCTCCG CCAGAATTC 60
TTCCGCTACC ATGGGGCTGTC CTCTCTTTC AATCTGGGCT GCGTCCTGAG CAATGGGCTC 120
TGTCTCNCCT GCCTTGCCCT GGAAATAAGG AGCCTCTAGC ATGGGCCCTG CATGCTAATA 180
AATGCTTCTT CAGAAA 196

SEQ ID NO:4021

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04750

SEQUENCE DESCRIPTION:

GATCATGAAG AAGCAGGGCC TCTACCTACA AAAGTNAATC TTGCTCATTG TGAAATTTAA 60
GCATTTTCTT TTTAAAGAC AAGTGTAATA GACATCTAAA ATTCCACTCC TCATAGAGCT 120
TTTAAATGGA TTTCATTGGA TATAGGCCTT AAGAAATCAC TATAAATGC AAATAAAGTT 180
ACTCAAATCT GTGAAA 196

SEQ ID NO:4022

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04751

SEQUENCE DESCRIPTION:

GATCTGGTTC CAGGGGAAAA AAATAGCTGG TTGGTGTCTA GCCCCCAAC ACTTTTGTCT 60
GTTGTGTATA AAAGAAGAAA GACTGGCATG TACCTTCATT TGCTTAGCTA TTTGAGTATC 120
TAGAGAAAAA TTAATATGCA ATGAGTTAGC AGTATACCCT GGCACACTTA ATAAATTTAA 180
CATTTGTGGA GCAA 195

SEQ ID NO:4023

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04752

SEQUENCE DESCRIPTION:

GATCTAGAAG CTGGTAAAAA TGACAATATC AATCACATTA GGGGAACCAT TGTGTCTTC 60
ACTTAATCCA TTTAGCACTA TTTAAAATAA GCACACCAAG TTATATGACT AATATAACTT 120
GAAAATTTTT TATACTGAGG GGTGGTGAT AACTCTTGAG GATGTAATGC ATTANTAAAA 180
ATCAACTCAT CAAA 194

SEQ ID NO:4024

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04753

SEQUENCE DESCRIPTION:

GATCCAACAG CAACACCATT TTAAATTAT TGTGAAAAGA TTAAGTGGCA ATGTACAGAG 60
TTTACTCAA GCCCTTCTTA AGGGAAAACA CTACAAAAAG TCACAAGGAT ACCAAATGGA 120
AACACATGAT GATGCCTCTG GGTCTGTATG AGACCGTGAT GAAGTAGAAA TAAAGCCCTT 180
CTGAGATGGC AAA 193

SEQ ID NO:4025

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04754

SEQUENCE DESCRIPTION:

GATCCACGGT GGGCTCCAGC TGCCAAGNCA CCCAAGGGAG TCTGGGCCCT AGGCCTAGCC 60
CCATCCCTCC CCATGAGGGG CCAAGACACT GCCTAAGGTG TGGGAGGGAC TGGCTGAGAT 120
TGCAGCCCAT GGTAGGAGCT GGACCAACTG TATATAGTTT TCAATAAACT TTTTCCTTTT 180
CTGTTCTCAA A 191

SEQ ID NO:4026

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04755

SEQUENCE DESCRIPTION:

GATCCAGGAA GTTGGTGAAC CATCTAAAGA AGAGAAGGCT GTGGCCAAGT ATCTTCGATT 60
CAACTGTCCA ACAAGTCCA CCAATATNAT GGGTCACCGG GTTGATTATT TNATTGCTTC 120
AAAAGCAGTG GACTGTCTNT TGGATTCAAA GTGGGCAAAG GCCAAGAAAG GNGAGGAAGC 180
TTTATTTACA NCCAGGGAGT CTNTGGTTGA CTACTGCAAC CAGGCTTTTA AAGTAGCAGT 240
TTNTTTCACC GAGCCCTAAA GGTN 264

SEQ ID NO:4027

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04756

SEQUENCE DESCRIPTION:

GATCTTCACA TATTTTATAT GNATATATAT ATCAAGAAGT TATATATATA TAACTCAAGA 60
AACTCAAGTT ATATATATAT GTCAAGAAAT GTATGATTAT TTTGGAGAGA ATGGGCCCAA 120
ATGTGAAAAA GATATAAAAA AAACAAAAAA AACNNAAAAA AAACCNCTNT TTNCCCCTNC 180
GNANTN 186

SEQ ID NO:4028

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04757

SEQUENCE DESCRIPTION:

GATCTGGAAG TCACCCTCCT CTGGCCCACG GAAAATTTTG GTAATCTTCT AGGTTCTAAA 60
ATGAAGATGT ATGGGTACTC TGGCAGACTG CATGTTGTAT AATTTGAAAA ATACTAAAAG 120
TGGAAAATAA AATTGAATTA AACTTTGAAA 150

SEQ ID NO:4029

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04758

SEQUENCE DESCRIPTION:

GATCAACAAG TTCAAAACAC TGCTAAGTCT AAATCTAAAA CAGACCAAGA GTACCTTCAT 60
TTAANTTTAG CTTGCACAGA GCTTGATGCC TATCCTNCAT TCTTNCAGA AGTAAAGATA 120
ATTATGGCAC TTATGCCAAA NTTCAATTATT TAATAANGTT TACTTGAGG TAACATTACT 180
GATTTN 186

SEQ ID NO:4030

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04759

SEQUENCE DESCRIPTION:

GATCCAACAC AGAGACAATA GAAACATTGG GATTGAAGAG ATTCTTGGGA CTGTAAAAAT 60
CCCAAGAATA TGGGATTGTA AAAAACCTGT CATCTTACTG CTATGATAGA TGAAGATTTT 120
GCTTGCCTAT ACCTTGNGC TATTCCTCTC TTCCTTTCCT CCAAATATAC TTGTAGGTAT 180
AAA 183

SEQ ID NO:4031

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04760

SEQUENCE DESCRIPTION:

GATCTAGCAT TTTAATTCT AGCATTGCTA TTCACCGGCT TCCTTATTTT ATATGTAAAA 60
ATTAAGATTT TATATTTAAT CTTCTTGTTT CTCATAGATA TTTTGTGAGC ATTTTNTTGT 120
TTATTTTGAA GAAATGTGGA TAAGATACTT GGTAGTATAA AACAGNCTCT CTGAGAGTAT 180
TTN 183

SEQ ID NO:4032

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04761

SEQUENCE DESCRIPTION:

GATCAAGGTC TGTATATTAT CCCAACTTT ATTAAGAATT GTTTCTAAT TNGTTATAAC 60
ATTTTNAAT TAATAGTTTC AAAACAAATT GTTAATACAA CTGTATAAAA TGAACATAAT 120
TTTCCTCACT TGTATTTTGG TTATTGAGCA AGTTTATCAA AATAAATNGT CTAATAAAGA 180
AA 182

SEQ ID NO:4033

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04762

SEQUENCE DESCRIPTION:

GATCTCTTAT CAATTAGCAC TCACTAATGT ACTACTAATT GAGCAACCTA CGCACTCAGT 60
TGACTACGTA AATCTGTCAG GTCTTTTGTG ATTCCTCTG ATGCAGGAGA GGAAAAATTG 120
TAATTGATGA AAATAATGAA TGAATCAAA CAGATGAATA AATGGTTCTT TATAAGTGAA 180
A 181

SEQ ID NO:4034

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04763

SEQUENCE DESCRIPTION:

GATCTGGAGT CCCACGTTCC CCAAGGCCAG CGGGATGTGT GCCCCTCCTC CTCCCAACTC 60
ATCTTTCAGG AACACGAGGA TTCTTGCTTT CTGGAAAAGT GTCCCAGCTT AGGGATAAGT 120
GTCTAGCACA GAATGGGGCA CACATTAGGT GCTTAATAAA TGCTGGATGG ATGCAGGAAA 180

SEQ ID NO:4035

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04764

SEQUENCE DESCRIPTION:

GATCCTGTTT GTACAAAGTC TTGCTTTTAT AAGGTTTCAA TAATATCTAA AACAACACAT 60
TAAAAAGCTG AGACCATTTT ATGAAGATAA TTGTTTGTA TCATAGGTGT TGAAAGTAAA 120
AAGGTGCCAT CTTGTGGTAT TGA CTGTGTAT TTATAACAAA TAACTGCTC AAGAGACAAA 180

SEQ ID NO:4036

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04765

SEQUENCE DESCRIPTION:

GATCCTGGTT ACAGCCATTT TGTGTGATTC ACTTCGGGGG TTAAGTAATG CAGGATTCTG 60
CAACAAGGT GTCGCCGTCC AAATGTACTG TCCTGGCATA GAGAGCACTG CTTTGTTC 120
CACTGTTGTA GAGAAACTA GGGAGAACTT TATTTTCAA TAACTTTTC TTGTGTGAAA 180

SEQ ID NO:4037

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04766

SEQUENCE DESCRIPTION:

GATCATGTAT AAAAAGAAAA AAAAGAAGTC ATGCTNTGTG GCCAATTATA ATTNTTNNCA 60
AAGACTTTGT CACAAAACG TCTATATTAG ACATTTTGGA GGGACCAGGA AATGTAAGAC 120
ACCAAATCCT CCATCTNTNC AGTGTGCCTG ATGTCACCTN ATGATTTGCT GTTACTNN 178

SEQ ID NO:4038

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04767

SEQUENCE DESCRIPTION:

GATCAGGATT TGGGAAAATT GTGGTCAATA TTTGATTTTC CTTTCTGTT TGATAGCCTT 60
ATCTAAATTC CCCTAGCTTG AATGTAGTAA ATATGAGTGT GTAAAAATGT GTATCTAATT 120
CACCTCTTNG GGGAGGTTTA ATGTAACAT AAATAAAAT TCTTCCCCA GGTAAA 177

SEQ ID NO:4039

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04768

SEQUENCE DESCRIPTION:

GATCTTACCT CCTAACCAAC TCCATACATC ATGACCAATG GCTCAGTCCA AGCNGTCATC 60
TCTTGCTTGG TCACTGCAGG TACTTGCTAA CTTTCTTCCC AATAATCCAA CCCCCACAGA 120

GCAGCCAGAG TAGCCTTTT TTGTTTGTG TTGTTTGTG TTGTTTGTG TTGTN 175

SEQ ID NO:4040

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04769

SEQUENCE DESCRIPTION:

GATCTTAATA GCTAAATAT GAAAAATATT TGGNAAGTCT GAAATNAGGT CTCCTGGCCC 60
TGGTGTGCCC TTAATGCCTG TNACAGTTGG CCTCTGTGAA TATTGGTATA ATTNTAAATA 120
ATGTCAAAC CCATTTNTA GCAAGTATTA ATAATTAAGG GAAGTATGTC TGAAA 175

SEQ ID NO:4041

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04770

SEQUENCE DESCRIPTION:

GATCCTCAGG ATATGCAGGG CTCAAGAGAA ATGAAATATC TTGGGGATAT GGTACTTAA 60
GACGTGATAC TGTCACAGTG AATTCACAG AAGATGGTGC TGCCCTAACT GAGGTTCAT 120
CCATGTATAA GCCAGACCAA TCTGAAGACA AATAAAGTAT TTCACAGCCA CAAA 174

SEQ ID NO:4042

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04771

SEQUENCE DESCRIPTION:

GATCTTCAAA CATTAACTTA AGCAGACCAA AAATTCTGAT GACCGCATCT AGATTATTTT 60
TTTATAAAAA TGATTTTCAC TATAGCTATG TTACGCTAAG CTACTGTCCA ATCTCTTG 120
ATGTGTAAC TTTACATGTG AATATTAAAG TAGATTTCTC TGTCTTGTA A 171

SEQ ID NO:4043

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04772

SEQUENCE DESCRIPTION:

GATCTTTAAA GATGTGCTAA ATGACTTTTT TGGCCAAAGG CTTAGTTGTG AAAAATATAA 60
TTTTTAAATT ATACATTCAA GGTAGTGGCC AAATGTAACA CATCAATCAT GGAATGATTN 120
CTCTGCTAAC AGCCGNCTGT ATGTTTCAAT NAATTTGTCC AAAGCTCAAA 170

SEQ ID NO:4044

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04773

SEQUENCE DESCRIPTION:

GATCCTTCCC AGTGGACAGA TGAAGAATTA GGTATCCCTC CTGATGATGA AGACTGAAGN 60
TGTAAGTCA GCCTCACTCT GTACAAGAGC CAGGTGAGAA TTTCAAGGAT TATCGACTTC 120
ATATTGCACA TTAAAGTTAC AAATTAAAGT GGCTTGGTCA AGAATGAAA 169

SEQ ID NO:4045

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04774

SEQUENCE DESCRIPTION:

GATCTAGTGT GTAGTGAGCT CAGTATAGAG GACAGAGCTT TCATCATGTA AATTNATATG 60
CAAAGCCAAA TNAACGTGG TGTGTACTTC CTAAGTATGC GTCAGGGTAT AGGCCTCTTT 120
TTCTGCCATT CAAATAATGG AAGTTAATTA AATTTTAAAC AAATGTAAA 169

SEQ ID NO:4046

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04775

SEQUENCE DESCRIPTION:

GATCCATACT GAAAAAATNC TGAGCCAGCC ATCTTTGGCA AAGNNCCCTG AGCTCTTGCT 60
ATCTCTCAAG AGTGCTGAGA NCCACGGTGA AAGTNCCTGCT CTAGGCCAC AAGTGTAAGT 120
ATGCTGTAA CAGCTGTCAA TAGATAATTA AAATTCATAC TGTATGAAA 169

SEQ ID NO:4047

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04776

SEQUENCE DESCRIPTION:

GATCTCTGTT CTNGNTTGAA TGTATTTAAT TTCCAGCAGA ATGAGCCCCA TTCCTTATTT 60
TGATTGGCCA TTTATCATGT ACATATGGTG AAATGCCTAT TCGTGAATTA GCCAATGTTG 120
TTTCTTTTTC TTAAGTATTA CTACAGTACA TTTTATATG AAAGCAAA 168

SEQ ID NO:4048

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04777

SEQUENCE DESCRIPTION:

GATCTGCTGA AGCATCTGTC CAGCTGGTAT CCTGTGAAAG TTTGTAATTT NCTGAGTAGA 60
CATTCTTATA GAGTATTGTC TTTAAATCA GATTGTCTCT NCTATATTGA AAGCATTNN 120

ATGTTTNCNA ATTTAAAAAT TAATATTTCC TTATAGATAT TGTGCAATAA AGCTGAAGTA 180
GAATGTGTGG TTTTGC AAA TNCTTAGCG GN 212

SEQ ID NO:4049

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04778

SEQUENCE DESCRIPTION:

GATCTTGCTC CACAAAATAA ATTA AAAAGA TTTTAAATA GCAGGTTTCT AAAACAATGA 60
GAAAGACAGC ATTACATATC AGTGTCTACA ATTTAAACAA AGCTATACTT AGAAGTAAAT 120
TCATTGTCTT AACTGCTTTT GTTCCAATAA AACAAAATAG CAGGAAA 167

SEQ ID NO:4050

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04779

SEQUENCE DESCRIPTION:

GATCGTTACT ATGTGTCAAA GGGTTTGGAG AACATTGATT AAGGAAGCAT NTTCTGATT 60
GATGAAAAAA ATAACTCAGT TATGGCCATC TACCCCTGCT AGAAGGTTAC AGTGTATTAT 120
GTAGCATGCA ATGTGTTATG TAGTGCTTAA TAAAAATAAA ATGAAAAAAA TGCAAA 176

SEQ ID NO:4051

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04780

SEQUENCE DESCRIPTION:

GATCTATAAC TGTACTTTGC CTGGCGCTGT GCGAAGGTCA GAAAACTTAC TGCTAGTACC 60
TAGAAACACA CAAGGCTGCC CAGCCAAATC TTAATGTAAA GTAGCTAGAG CCATGGAAGT 120
ACAGTATGAA TAAAAAGAA AAANGTATTG ANCTTCAAT TCTAAA 166

SEQ ID NO:4052

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04781

SEQUENCE DESCRIPTION:

GATCTTGTA GTAGAAAGC TGTA ACTAAA AATTGTATTG TTTGCTTATT AGCCATGTAT 60
CTCTTAAAT TTTGTTATGT TTACAACGAT GTACCTTATT GGCAACAAGT TATTAGTTG 120
ATGTTTAAAC ATAGTGCTT TAGTAAATNA TTTTACAACT AAA 163

SEQ ID NO:4053

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04782

SEQUENCE DESCRIPTION:

GATCCAAAAG CTGGCTNTCT AACCACCAGC CAAGGGCTCT CTCACCACC AAGCCAACTC 60
TCAGGGCAGC AGCAATGTGT ACCTTATTAA CCTCTGCACC CNAGGTCCTA GCACAGGGCT 120
NGTCCATAAC AGGCGNCCAA TAAACATGTG TCATAATCTA AA 162

SEQ ID NO:4054

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04783

SEQUENCE DESCRIPTION:

GATCCCTGGT CCTGCCGACA CGCAGCTACT GAGAAGACCA AAAGAGGTGT GTGTNTGTCT 60
ATGTGTGTGT TTCAGCACTT TGTAATAGC AAGAAGCTGT ACAGATTCTA GTTAATGTTG 120
TGAATAACAT CAATTAATGT AACTAGTTAA TTACTATGAA A 161

SEQ ID NO:4055

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04784

SEQUENCE DESCRIPTION:

GATCGGCACC ACACCAGACA TAATCCTGGA CGACTTGCTG GAGACGGACC GCGTCACCGC 60
CCACTTCTAG CCCCGTGGAT GCCGTCACCA CCAGCACACG GAACTACCTC CCACCCCTT 120
TTTGACAAA ACACAAGGAA AAACATTTTT TGCTTGAAA 159

SEQ ID NO:4056

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04785

SEQUENCE DESCRIPTION:

GATCTAATTC TTTTGATAAA GTTCTAGCTC TAAAAGTGAT AGTGGGACTG TATGTTTTCT 60
GATACTGGTG GCTTATGTTA TTAANCCTTT TTTAAAAAAG GTCCACTCTA AAGGCTGANN 120
NCCACCCTAN GTTCCAGCC TCCTGGCCTC NACCNGGGN 159

SEQ ID NO:4057

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04786

SEQUENCE DESCRIPTION:

GATCTTGTGT TCTTTGTGCC AATATGAAAA GGAGAGGGTT GGTTCCTTCC TTTATTGTTG 60

AATGCTCCCA TTTAATGCTT TATGGCTTTT ACTGTATTAC TTTTGTAGAC TCCCCTCTGC 120
 ACAAAATGCA ATAAAAATAA TTTTATTATA CCCTTAAA 158

SEQ ID NO:4058

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04787

SEQUENCE DESCRIPTION:

GATCACACTG GGGAAAAGTG ACAGAACCAA ATTTCAAACCT CCAGTCTTTC TGCTTCTAGA 60
 GATTGAACTA CTAACATCTG CATTATATAA AATTAAGTNT CTCAAGGTAG TTTGTGAACG 120
 TAACATACAA ATAAGTGATT AAAATTTTNG GTGATAAA 158

SEQ ID NO:4059

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04788

SEQUENCE DESCRIPTION:

GATCCCAAGT GATTAAAATA GGGTTTCTGA ATGGATGTTG AATGGCGTGG ACTCGCTACT 60
 CCGTTCTTCA CAGCTGCCTT CCAGAATGTG TTCAAAGAA AGACAAGAAG GAGTGTATGG 120
 CITATAAAGT GAATCTAATA CAGTATTTGT TGCATTTAAA CAACTAGAC ATTTTCTTAC 180
 GGAAAANTTA TGAAATACAG CATATTTNAT GTNCTCCCAT TGACTCAATC ATGACAATAT 240
 TTCTGCTTTA ACACCATCTT TCATGATTAG NAATGTTTGT NATTGGAAAT GTTACACCAT 300
 GTAAATAN 308

SEQ ID NO:4060

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04789

SEQUENCE DESCRIPTION:

GATCAGCCCC AGATTTGACG TGCACTCAA GACCTGGAAA AATGGCAGAA TAATCTGCTT 60
 CCATCCCGCC AGTTTGGTTT CATTGTACCT GACCACCCTC ACNCGCAANC ATGGACCCAT 120
 GAAGNAGCAA NNCGGAAACN CACNAGAGGG AAAAN 155

SEQ ID NO:4061

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04790

SEQUENCE DESCRIPTION:

GATCTCATTG GTATGTTTTT TAATGTGTAG AATTAACACT TTAATAATAA CAGGTGTGAA 60
 AATTATAAG GAATATATAT GACAATTATT TNCTGTACAT TAATGTCTAA ACATTATACT 120
 TACTTTTCCA TAATAAAGGA AATTTTGGAA CCAAA 155

SEQ ID NO:4062

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04791

SEQUENCE DESCRIPTION:

GATCTTAAAA CCAAGACAT TATATTGAA GGGGCACAGC AAACAGTGCA AGAAAATCTG 60
CTGATGGAAG ATNATTTTNA TCAGTCCTCA GANCCAGAAA CTATAAACT GGGAAGGAAA 120
GTTTAAATAA AGANTTTATT TCCAAATTCA GCAAA 155

SEQ ID NO:4063

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04792

SEQUENCE DESCRIPTION:

GATCTAAGNA GGATTCAACA CCTTTNTTG GTTGCTCAGT GTGTAATGAC TGAGATTTGT 60
AAATCTTTGT GAACATTCTG TACTGGTTC CAAGAGCTAT TCATTCCCTG CTACCTGATT 120
TCAGCACAAT AAATATACTT CTGCTGTGGG AAA 153

SEQ ID NO:4064

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04793

SEQUENCE DESCRIPTION:

GATCTTAGCT GTATGGAGTA ACTATTTTCAG AAAACCCTAT AAGAAGTTCA TTTTCTTTCA 60
AAAGTAACAG TATATTATTT GTACAGTGTA GTATACAAAC CATTATGATT TATGCTACTT 120
AAAAATATTA AAATAGAGTG GTCTGTGTGA AA 152

SEQ ID NO:4065

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04794

SEQUENCE DESCRIPTION:

GATCAGAGAA GGCTGAAGAA GGTGGAGAAA CTNAGGCACA AAAAGAGGGC AGTGAAGATG 60
CGGGCAACCT CCCTGAAGCC CAGGAGAAGA ATGAAGAAGA AGGAGAGACA GCCACAGAAG 120
AGACGGAAGA AATAGCCATG GAGGGTGCN 149

SEQ ID NO:4066

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04795

SEQUENCE DESCRIPTION:

GATCAACTAT GGGTTTATAT AAATNCCAAA TTTAGTACAA CAAATTTAGG TCATCAGGTG 60
AATACAAGTA TTTTTTTTAA CAGGNAACAT TTTATTATAN NAAAAATATT AATGATAAAC 120
GCATATTGGT TGAAAAATAT TTTTAAACN 149

SEQ ID NO:4067

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04796

SEQUENCE DESCRIPTION:

GATCTCTGTG ACCCATACCC TATTTNTACA CTCCTCCCC TTTGAAAAT CACTAATAAA 60
AAATTTNCTG GTTTTATGGC TCAGGGGGCA TCACAGAACC TGCCAACATG TGATGTCTGC 120
CCTGGACACC CAGCTTTAAA ATTTCAAA 148

SEQ ID NO:4068

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04797

SEQUENCE DESCRIPTION:

GATCATTTTC TTGGGACCTT GAACTGTGAA TGTTTTGTCC TAACCATTTA ATATTTTCTA 60
GGTACTTGCT GCAAGTNCTT GAACTATTTT ACCAGCTTAA ACTTTGGGGC TCTTAGNTTC 120
TNTNCTCCAG ATTCTTGTTA TNNNATN 147

SEQ ID NO:4069

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04798

SEQUENCE DESCRIPTION:

GATCAGAGAA GCAGATATTG ATTGAGACGG ACAAGTCAAC TATGAAGAAT TCGNACAGAT 60
GATGACTGCA AAATGGAAGA CCTACTTTCA ACTCCTTTTT CCCCCCTCTA GAAGAATCAA 120
ATTGAATCTT TTACTIONACCT CTGCAAA 148

SEQ ID NO:4070

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04799

SEQUENCE DESCRIPTION:

GATCTTTTAC AACTGGTGA CCCTGAGAGA GGAGGGAGGA GGGAACCTGG CGGGGGTGTC 60
TGAGGCCGCA CTGTCAGCTG GCCGGTCCAA GCCTGTGGCT GGAGCTGGGG TCTGTTTACC 120
TAATAAAGTC CCACAGGTGC CTCATTAAT 149

SEQ ID NO:4071

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04800

SEQUENCE DESCRIPTION:

GATCCCCTTC AAGTCTCTCT GACCTTTCTT CTGCCCTCCA GCCTGGGTGA CAGAGCTAGA 60
GTCTGTCTCA AATAATAATA ATAATACAAT AAATAAATAA ATAAATAAAT AAATAAATAA 120
ATAAATAAAG TACGCTTTCC ATTAAA 146

SEQ ID NO:4072

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04801

SEQUENCE DESCRIPTION:

GATCTCATAG AGCCCAGTTC TTAGAGTCAA CTAAAGAGTT GATAGGAATT TACTAGGTCC 60
AGGGAGAAAA GGCAGTGGTT GGGGTACTG GAAATTTTGC TCATTTTCTC TAATGACTGT 120
ATGAATAAAA GTGAACCTAC TTGAAA 146

SEQ ID NO:4073

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04802

SEQUENCE DESCRIPTION:

GATCTGAACT TACAGACAGT TGCCAAATTT CTCTAGATAA GAAAATAAAG AATAGAGGGA 60
ACCTAACTGG ATAACAAAA AAAAGGAGAG AGAAAAATGC CATTGCAGTT AAAGGTTATT 120
AAATAAAGCT TAGTGTCAAT GTCAAA 146

SEQ ID NO:4074

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04803

SEQUENCE DESCRIPTION:

GATCAGGAGG GACCACAAGG ACAGGAGAAT TAGCAACGAG AGACTGGCTG GCACCAGTNT 60
TGGGAAAACT TCAGAGTGAG CTCCATTCAT GGTCTATTAA AAGGCCTTIN TTGTCATTCA 120
GTGATATGTG NCTGGCCCCT GAGAAA 146

SEQ ID NO:4075

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04804

SEQUENCE DESCRIPTION:

GATCAAAAAA TTATTTTAT TTATCCTAGC TTTACGTGCA TCTCACGGAA ACAGGATACA 60
 CGGTGTATAT ATTATNATGC AGTTCGTTGG AACTAGAATT TCAAAAAATT TTAATAAATA 120
 TGTTTAATCT GTTGCCTCTG GAAA 144

SEQ ID NO:4076

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04805

SEQUENCE DESCRIPTION:

GATCACTGGG CCTACCTGCA CTGTGGGGCC AAGCCCTGTC TTTTCCCAA GCCCTCAAGC 60
 ACACGCATGA ATGTCATCC CGACTTGGTA GGGGGCTTT CACCCTTACA AGATGGCAA 120
 AGATTCACAT TGCTTTTTTT AAA 143

SEQ ID NO:4077

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04806

SEQUENCE DESCRIPTION:

GATCTGTCAT NNTTTAGCAG TCAAGTGGGA TGGGCATTAT ATAAACAACG TTACAATGTA 60
 AGGAAAATCT NTAAGNGAT GGGGAGAGAA AAAGGCAGCT GGTATAATCG GTTACTGCTG 120
 CTTAGTTCTA CTTAATTTN NNN 143

SEQ ID NO:4078

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04808

SEQUENCE DESCRIPTION:

GATCTGCCTC TCAGGAAAAA GTACTAACTT GTTCTTTTGG TTCCTGGCTT TCATCAGTTT 60
 GTGAGATTTC TCTATTTTTT TTAAATATAA TTTTATTCT TTCAACAAAT ATAAAATAAA 120
 AAACAACTTT GGNNCANTGA AA 142

SEQ ID NO:4079

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04809

SEQUENCE DESCRIPTION:

GATCCTGGCT AACCTNGCC TATTTAGATT CCTTCCTCTC ACCTGGACCT TCCCATTTC 60
 ATCATGCAGA TGGTTCTTT TTGTAAAGAG TTCCGTTTGC CTTCAATTT TTAGAGAAAA 120
 TAAAGACTGC ATTCATCTCA AA 142

SEQ ID NO:4080

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04810

SEQUENCE DESCRIPTION:

GATCTTCTTC TCTCTTGTC ACCTATTAAT TGTTTACAAT ATTTGTTACA TCTTATGCAA 60
AATACTTGAN TGGGCCATGG TGCCTTTTTT CCTTGTNAGT ATTTAATTAA AAATGAATTG 120
TTTGTCAATT GCAATGTAA A 141

SEQ ID NO:4081

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04811

SEQUENCE DESCRIPTION:

GATCCCGTTT TCCCCATGAC AATGTTGTAG TGTCCCCAC CCCCACCCC CAGGCCTTGG 60
TGCCTCTTGT ATCCCTAGTG CTCCATAGTT TGGCATTTCG ACGGTTTCGA AGTCATTAAA 120
CTGGTTAGAC GTGTCTCAA 140

SEQ ID NO:4082

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04812

SEQUENCE DESCRIPTION:

GATCTGTGCA GCAAACCACC ATGGCACAGG TTTATCTATG GAACAAACCT GCACATCCTG 60
CACGTGTACC CCTGAAATTA AAGTAAAAAT TGGAATAAAA ACATTTAAAA AGAAAAGAAA 120
ACAAACAACA ACAACAAA 138

SEQ ID NO:4083

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04813

SEQUENCE DESCRIPTION:

GATCTATCAA AGGAAAAGGA AACTGAGACC GAAAACCTAG GGTCTAAGTT GTTCTAAACC 60
CAGGGTTCTC AAATGTGTTG TACAAAAAGT TTCATGTAAT AAAATTAAGC AAATAAACA 120
AATGAATAGA GGTCCAAA 138

SEQ ID NO:4084

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04814

SEQUENCE DESCRIPTION:

GATCACAATG TCATTTCCTA ATACAAGGCA GGATATGTGG GAAGAATATG TACAATTATT 60
TGATTAAAAT TATTTCCAC TGACCTAAAC TTTCAGTGAT TTGTGGGAAA AATAAATAAA 120
TGTCTACAC CAAGAAA 137

SEQ ID NO:4085

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04815

SEQUENCE DESCRIPTION:

GATCCACTGC CTCAGCCTCC CAAAGTGCTG GGATTATAGA CATTGATGAT GAATTCTTAT 60
TTTANNNTA ATATAAGCA AATACAATTA TTGTTAGATA ACAATGCACA AAATAAAATT 120
CAAGGGTGAA AAATAAA 137

SEQ ID NO:4086

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04816

SEQUENCE DESCRIPTION:

GATCCATGCC TGTAGTCCAA GCTACTCAGG AGTCCGAGGC ACAAGAATTG CTTGAACCTG 60
GGAGGCAGAG GTCACAGTGA ACCATGTTCT GTCAGTGCAC TACATCCTGG GTGACAGAGC 120
GAGACTCCAT CTCAA 136

SEQ ID NO:4087

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04817

SEQUENCE DESCRIPTION:

GATCTGGTCC CTGTAGCACA GAGGTCCGAA GAACCGCCTT CAGAAAGAGG AGGCATATTT 60
GGAAAGTATG GGAAAGACTT TNTGGACAAG GATGGAGAAC ACTTTGGAAA ATTGCATTGT 120
GCCAAGAGAC AACAAN 136

SEQ ID NO:4088

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04818

SEQUENCE DESCRIPTION:

GATCTACAAC ACCTGCCAGT GACCCCTGCC CAAGGCCTAC CCCAGTTCCT AGCACTGCCC 60
CACATGCATG TCTGCCTATG CACTGAAGAG CTCTGGCCC GGCAGGCCAC CAATAAACCA 120
GTGTGAACCC CCAA 135

SEQ ID NO:4089

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04819

SEQUENCE DESCRIPTION:

GATCTGCTGA CAGTGAGTAG TATTTTGTT TAGGATGTTG TGAATTAGCA AAAATAATAC 60
AGATGTCTTC CCCCCTTTTG TAGCTTTGAC AATTTGAATT AGATTTCAAA TAAATCTGA 120
ACAGAAACT AAA 133

SEQ ID NO:4090

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04820

SEQUENCE DESCRIPTION:

GATCCTTACA TATGCCATCC TTCTGTGTCA TTTGTGGCT GTTCTGTGT TTTCTTCCTA 60
GTTATTTATT ATTGTTAATA ACTTACTTTT TCTTACATTC TGTGTAAAT AAAATACAAA 120
GCAATCTTCA AA 132

SEQ ID NO:4091

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04821

SEQUENCE DESCRIPTION:

GATCAAACAG AGGCATGCTA AGATATATTG GGGCTTGAAG CAAAGGGAAA ACTATTTGTT 60
GCTATATGTT TGTAGGGATT TTTTGCCAGT TTAAAAATA CATGTATCAT AAAGTTTACT 120
ATCTCAGCCA AA 132

SEQ ID NO:4092

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04822

SEQUENCE DESCRIPTION:

GATCAGTGGG GGAGGGCACC TCAGCAACCT CTGAGTGTGG ACAATAGCTG CTTTCTTCTC 60
TATCCAAGAG CACCAGGCTG TGCTTGGNTC CTTGCTCTCA GAGTCTATAA ATAAAAGAAT 120
ATAATGATTA AA 132

SEQ ID NO:4093

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04823

SEQUENCE DESCRIPTION:

GATCGGGGGT GGGATGGGAT GGAGTGAGCC CCATCCAGTT AGTTGGACTA GTTTTAAATA 60
AAGGTTTTC GGTGTGTGT TTTTGAACC ATACTGTTA GTAAAATAAA TACAATGAAT 120
GTTGAGTAAA 130

SEQ ID NO:4094

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04824

SEQUENCE DESCRIPTION:

GATCACAGAG GGAGGAGCTC TGAGAACAGT CTCCTTCAAC AGCTCGGCCA AGCAGAACTG 60
CTGTACCTCT GACCACTTGT GTTAGGAAAA CTATCGGCTC CCTGTATAAT AAATCAAGCC 120
AGGTCAAA 128

SEQ ID NO:4095

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04826

SEQUENCE DESCRIPTION:

GATCTTTGCC TNTAAGCTTG AATATTTGGC TTAAANTTTG TNCATATGAA TACTGTAAAA 60
GGTATATTTN ACTACATTTT GAAAGGAAAA AGGTAGTCCT GCTAAAATTG ACATTTAGGG 120
ATANN 126

SEQ ID NO:4096

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04827

SEQUENCE DESCRIPTION:

GATCTGAAAT TCTGAGATAT CAATCTAGGA ATTTCAAAAG AACAGATTA TAGAATTAA 60
AACTTAACAC CNGTCTTGTA TTAAGAGAAG TCAACATTTT AAATAAAACC TTGTTCTTAC 120
CAAA 124

SEQ ID NO:4097

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04828

SEQUENCE DESCRIPTION:

GATCTCAGAA CTGTGCCAAG CAGACACTGG GACAAAGGGA GAATATCTTG CTCCCCTCCT 60
GAGTCAGCCT GGTGTTGCC TTTATTCCCC TTATGTGCAT ATGATTAAAG AGTTATTTT 120
AAA 123

SEQ ID NO:4098

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04829

SEQUENCE DESCRIPTION:

GATCCTACAA ACAGACATTT TCCACTCGTG TTTCCATAGT TGTAAAGTGT ATCAGATGTG 60
TTGGGCATGT GAATCTCCAA GTGCCTGTNT AATAAATAAA GTATCTTTAT TTCATTCTATA 120
AA 122

SEQ ID NO:4099

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04830

SEQUENCE DESCRIPTION:

GATCTTCTCG CCTCAGCCTC CTGAGTAGCT GGAGCTACAG GTGTGAGCTA CCCAGCATGG 60
CTCATTTGAG ATTTCTGAGT AGAGAAGTAA CATGATTAAA CTTGGGTATT GAGATTATAA 120
A 121

SEQ ID NO:4100

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04831

SEQUENCE DESCRIPTION:

GATCAATCTC TCCCTCAGCT TTCTTTCCTA CTTTTCGAGC TTTGCTGGCT TTAACTGCT 60
TCATTCTTCT GCTTCATTGG TATCCTTTTT TCTTTTGAAA TAAAAACATG AAATACTTAA 120
A 121

SEQ ID NO:4101

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04832

SEQUENCE DESCRIPTION:

GATCGACTGA GTCCAGAAAG TCAAGGCTGC AGAGAGCCAC ATTCAGTCA CTCCAGCATN 60
GNTGNCAGAG GNAGACCCTG TCTCAAAAAA AAAAGAAAAA AGAAAAAGTG ACAATGNCAA 120
A 121

SEQ ID NO:4102

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04833

SEQUENCE DESCRIPTION:

GATCGGTAGG GGGCCTGCTC CTCGGACTCT GGTTACCTCT AAGGCTGGGA AAGGCCTGGT 60
TGCCCACTGC NTCNTCCCT GCCCTCCTT TNATGTCCAT AAAGTGGCGT GAAGTGAAA 119

SEQ ID NO:4103

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04834

SEQUENCE DESCRIPTION:

GATCACCTT AAATCNGNGT TGGGAAAATA TCAATTAAT GGACTCTCTG GTTGAATTC 60
TCAATATGTA TCTTAATATG AAATAGCTCA TAAAACTTC ATGTGTAAT ATAAA 116

SEQ ID NO:4104

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04835

SEQUENCE DESCRIPTION:

GATCTGGGTG GTAGTACTG GGTGTGTTCT CTTGTGATA CTCTCTCGAG ATGTACACTT 60
AGGATTGCA ATCTTTCTG TAAATATTT CAATAAAGA CATTATTTT TAAA 115

SEQ ID NO:4105

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04836

SEQUENCE DESCRIPTION:

GATCTTAGCT AAATCTCGGT AGATGTCATT ACAACCTNGA AAATAAATCA CCCTAAGTGA 60
CACAAATTGA AGCATGTACA AATTATACAT AATAAAGTGT TTTAATAAT TGAAA 115

SEQ ID NO:4106

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04837

SEQUENCE DESCRIPTION:

GATCTNCAC CTCTGGNAA TTAAATTTGT TGGTCACTGG GGAAAGCCTG AGTTTGCAAC 60
CAGTTGTAGG GTTCTGTTG TGTTTTTTTT TTTTTTTTAA AAAAAAANTN NAATN 115

SEQ ID NO:4107

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04838

SEQUENCE DESCRIPTION:

GATCAGACAA GGAATGAAGC AATGCTGTG GGCTGGGAAA CTGTACCTAC CTCTCTNCCC 60
ACTGCAAATN NCTGGGATAG ACCAAAAGTG AATTAAATTA TGTNTTGGCT GAAGN 115

SEQ ID NO:4108

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04839

SEQUENCE DESCRIPTION:

GATCCCAACT TGAAACAACA GCCAGTGCCT GTGGTAACTT AANNTNTTGT CAAATACTTT 60
TATTGATTGG TTTATATGCC ATTNTTGTTA TAGAAGAATA TGCCTTTTAA AAANN 115

SEQ ID NO:4109

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04840

SEQUENCE DESCRIPTION:

GATCAGCTCC GTGGGACTGA TATTGGTCCA CANCANAACA GGCAGTGCCT CCTTCCCTCT 60
GGGGAATGCA AAAGAAANCA TGGATTAAGN GAGAAGGGAG ACTCTCAGCN TN 112

SEQ ID NO:4110

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04841

SEQUENCE DESCRIPTION:

GATCGCCCAA TAAACATTCC CTTGGATGTA GTCTGAGGCC CCTTAACTCA TCTGTTATCC 60
TGCTAGCTGT AGAAATGTAT CCTGATAAAC ATTAAACACT GTAATCTTAA A 111

SEQ ID NO:4111

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04842

SEQUENCE DESCRIPTION:

GATCGGCATA TGCATATCAA AAACAGCTCC CAGCTCTGTA AGGCATTAGA GTGAAAGCAN 60
ANAATTTTTT AATGAAACAT TTATTTGCCT TCTTTTACTG CAGTGCTNNN N 111

SEQ ID NO:4112

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04843

SEQUENCE DESCRIPTION:

GATCATACTN CTTTATCTAG AGNTTTGTCT CAGCTTGCAG AGNTTGAGGA GAAGATAGAC 60
CAGTTACATC AAGAACAAGC TTTTCCTGAC TTTAATATGT TTNCNGAACT N 111

SEQ ID NO:4113

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04844

SEQUENCE DESCRIPTION:

GATCACAGTG CAGATAATTA CCTCACACCT GTTAGGATGG CTTTCACCAA AAAGACAAAA 60
GATACGTGTA GGCAAGGATG TGGAGGAAAG AGAACTCTTG TATACGTAAA 110

SEQ ID NO:4114

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04845

SEQUENCE DESCRIPTION:

GATCTTAGTC CGTTTTTTTT TTATATATTG TAACGTAAA TGAAAAAGA ACCCCCCTNN 60
TGTATTATAG TCATGCGGTC TTATGTATGA TAAACAGTTG AATAATTAAA 110

SEQ ID NO:4115

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04846

SEQUENCE DESCRIPTION:

GATCTGGGAC TTCCAGAAAA CAGAACTNTN AAAANACAAG TTTCTTTTGT TTAAACCACC 60
CAATCTNAAG TATTTTTTNA TGGCAGTCCT GGCAGACTA ATACAATATN 110

SEQ ID NO:4116

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04847

SEQUENCE DESCRIPTION:

GATCTATCAT AAAAAGCAAT GTCTTCTCTG GAATGGGGCT TCAGTTTCCA CATTTACAAT 60
TAGTACATAT TACAATTAGT GATATGAATA AAGGCTGTGA TCCTACAAA 109

SEQ ID NO:4117

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS04848

SEQUENCE DESCRIPTION:

GATCAAAACA GGTGACAGTG AAGTGGTTTC GGCCCTGCCA ATCTGATATC GTGTATGTAT 60
GAGAGTGGTC AGCATTTTAC CACTGGTAAC AAGTTCCTTN CTGTNCAAA 109

SEQ ID NO:4118

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04850

SEQUENCE DESCRIPTION:

GATCATATATA ATTTATGTAT CACCTTCATT GTAAATTTAG CAGGAAATGC ATCACAATTA 60
TNATTTTTTT TTTTGNACC AGTGAAACAA TAAAGATGCT ATTACCAA 109

SEQ ID NO:4119

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04851

SEQUENCE DESCRIPTION:

GATCATGTTG CTGGCTTTTA TAAACTCTAA GCGAAGGAGG AGCACTGCCT CAGCCTTTGC 60
ACATGGTAAT GAAGCACTGT TTTTAAATAA AAGAGAGAAA CACCAAA 107

SEQ ID NO:4120

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04852

SEQUENCE DESCRIPTION:

GATCCGTGAG GCGGTGANTT GGA CTGGGACC CACTGCTGAT TCCCTGCACC TAGCACAGTG 60
CTTGCCACAA AGTGGGCTCT CAATAAATAT TATTTGTCCA AGGAAGGAAT GAATGAAA 118

SEQ ID NO:4121

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04853

SEQUENCE DESCRIPTION:

GATCGTCTGA GCCCCNCGG CACTGGGTGG GGCAGAGCAC GAGTTATTTA AAACAGTTAC 60
ACTGCAGGGT TTCGCCAAT AAAGGTGGAC TGACATTCCC TCTTCAAA 108

SEQ ID NO:4122

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

01313

CLONE:HUMGS04854

SEQUENCE DESCRIPTION:

GATCTTTTAT ACTCAGNTTN AAACACTTTA CTTGGGTTTA CCAAGCCTCA ACTGGCATA 60
CATAAACANG CCACANGGAC CGTTCCTGCA GGCCCAACCC ACAGGGN 107

SEQ ID NO:4123

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04855

SEQUENCE DESCRIPTION:

GATCCGGAAC CCACTTTTT ATTCACTCCC CATCGTCGTT TGGCCNTTCC ATCNNTCTT 60
NTCTTCCCT CTGCCATCCG TGACACTGAT AGTTNGTCAT ATAAATN 107

SEQ ID NO:4124

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04856

SEQUENCE DESCRIPTION:

GATCTCCAAT CTCCTCGGTT GCAACACCTG AATAAAGCCT TCTCCCTCA CAATACTTGN 60
NNNCTCAGTG ATTGGCTTAC TGTGCAGTGA GCAACCTAGA CCAANN 106

SEQ ID NO:4125

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04859

SEQUENCE DESCRIPTION:

GATCAAAATC ACGTTGTAG TATCATATCA AAAATTCTAA CCTGTTTACA TTGTTTTNAT 60
GTTTATGTTT CTATGTTATT AAAATATTAT TTTGTACTTA AA 102

SEQ ID NO:4126

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04860

SEQUENCE DESCRIPTION:

GATCTACGGC AATGTGAATC ATTCAGATGT TTACAATAAA AAACACCACA TGAGTAAATG 60
AATTCACTAA TGTTAATGTT AAACCTCATG GAAAGNNNN N 101

SEQ ID NO:4127

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04861

SEQUENCE DESCRIPTION:

GATCCCCCT CAGGACAAAT CTACTCCAGC CACGATGAGA AGTGGGTGAG CCAGGGTCTG 60
AGTTTCACAT TTGAACCAAA TAAAATGCTG TCAAGAGAAA 100

SEQ ID NO:4128

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04862

SEQUENCE DESCRIPTION:

GATCATGCCA TTGACTGCA CCTGGGCAAC AAGAGTGAAA CTCGGTCTTA AAAAATATAA 60
GAAATAAAAA AATAAAACC GTCCCCAGA CTGGAAA 97

SEQ ID NO:4129

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04863

SEQUENCE DESCRIPTION:

GATCCTGAGC TAGGAGAGTA CATTTGCAG ACCTTGGTT TCCATATTAA GAAATTCAGA 60
TTTNNATGTA CAATAAGAA GTTCTGGAAT TCTCAA 97

SEQ ID NO:4130

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04864

SEQUENCE DESCRIPTION:

GATCTCTNTN CAGCCCTAAA GCTCCTTGGT TCTGTAATTC CACCAATAGC CCATTTCAAA 60
AATAATTCTA CAGTAATCAG TGGGACTCCT GTTTN 96

SEQ ID NO:4131

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04865

SEQUENCE DESCRIPTION:

GATCACACCA CTGACTCAA GCCTTGGCAT CAGAGTGAGA CTCTGTCTCA GTAAAAAAA 60
AATAAATAA TAAAAATGTT TAATTAACCA TGAAA 95

SEQ ID NO:4132

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04866

SEQUENCE DESCRIPTION:

GATCGTAGGG CATCAGAAAA ACAAAAAGAA ATAGAGAGAG TAAAAGAGAA GCAACAGAAA 60
GAACTCAATA AACAAAAACA GATTGAAAAG GTAAA 95

SEQ ID NO:4133

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04867

SEQUENCE DESCRIPTION:

GATCTTTATT GTTCCTCACC CCATTTTCCT CCTTGTGTAT GTACTTCCCC CACCCCCTT 60
TTTTTAAGTA AAATGTAAAT TCAATCTGCT CTAAGAAA 98

SEQ ID NO:4134

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04868

SEQUENCE DESCRIPTION:

GATCTAATAA GTATTGGAAT GCTTCCTATT TGCTGATAGA AGTACCAAAT AGTATTATTG 60
AAGTCTAACA AAGACTTTTT GTTGAGAACA CAAA 94

SEQ ID NO:4135

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04869

SEQUENCE DESCRIPTION:

GATCGAGGTA AGAGGGACTT TNTTAAAGGC CTAGTCTATG GGATGGGGCG GCGGAGGGAA 60
TTTTTTGAGA AATAAAATGA AGCTGCAGTG TAAA 94

SEQ ID NO:4136

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04870

SEQUENCE DESCRIPTION:

GATCACACCG CAGACATTTA GATTTTATA CCCAAGGCAC TTTAAAAAAA TGTTTATATA 60
ATAGAGAATA AATTGAATTC TTGTTCCATA AA 92

SEQ ID NO:4137

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04872

SEQUENCE DESCRIPTION:

GATCTTTACT GATGCACTCA TGACAAGTAC CCAATGTATT TTAGCTATTT TAGTAGTATT 60
TGTTCAATAA ATACGCAAGC TGTAAGGTAA A 91

SEQ ID NO:4138

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04873

SEQUENCE DESCRIPTION:

GATCTGCTTT TCTGCACTGT TGTCTGTGTG TCTGCGTTGT GTGTGATTTT CATGGAAAAA 60
TAAAATGCAA ATGCACTCAT CACAACTAA A 91

SEQ ID NO:4139

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04874

SEQUENCE DESCRIPTION:

GATCAAAAAA AATAAATCAC AATGGTATTT AGAAAATATT TTTCAGTGAA GGCTAACAAA 60
ACACTACATA TTAAATTAT AAAATGCAAA 90

SEQ ID NO:4140

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04875

SEQUENCE DESCRIPTION:

GATCTTTTGA TGTGCACTAA TGCCATTATT GGTAATGCCG GTTATTGGTG AATACAGCAT 60
AGTTAAATAA ACTGTTACAG TAAATCTAAA 90

SEQ ID NO:4141

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04877

SEQUENCE DESCRIPTION:

GATCTAGGGC AAAGTTGTCC AACTGTTGGC CCATGGAACA GCTTTGAATG CAGCCCAACA 60
CAAACTCTATA AATTNCTTA AACATTAAA 89

SEQ ID NO:4142

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04878

SEQUENCE DESCRIPTION:

GATCAGTCTC ATGGGCCATC TCTTCCTCAG ATGTAAATAA TATCTGGTTA AGTGTATAT 60
GGAATAAAGT GGACATTTTA AACTAAA 88

SEQ ID NO:4143

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04879

SEQUENCE DESCRIPTION:

GATCTCAGTG ATGTTTGAAC CTTCTGTGTA ACTTTTATT AAGTCTTTGT ATCTCTCGAC 60
TGATTAATAA AGAAGAGAAA CACGTAAA 88

SEQ ID NO:4144

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04881

SEQUENCE DESCRIPTION:

GATCTTTATT GGTGACCTTT TGTAAAGACAT TAGTTTGAGG TACTACCTAT GTACTTGAAA 60
ATAATAAAGT GGCATTTCTT TATGAAA 87

SEQ ID NO:4145

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04882

SEQUENCE DESCRIPTION:

GATCCACTTT GTACTCCTAC CAGTAGGAAC GGTCTTCTAA CAGAGAAGAT TATAGCAAAA 60
AATAAAATCT CTTCTTAATT CCCAAA 86

SEQ ID NO:4146

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04883

SEQUENCE DESCRIPTION:

GATCCAAAGT CCAGCTCTCT CACTGAAGCC TTATCTTTCG GAAAGCTTCC AACAGTAACT 60
CAGGAATTNA GCTTACTTGC TTAAA 86

SEQ ID NO:4147

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04884

SEQUENCE DESCRIPTION:

GATCTAAAGA AGAAGGTTCA GTTTCAAAC AGAATTAGA GAAAATATAA AGAAATAATT 60
TCTTGCTCTCA AAAGGCCAAA GTAAA 85

SEQ ID NO:4148

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04885

SEQUENCE DESCRIPTION:

GATCCAGCTG TGCCTAAAGC CTGCCCTACC TCCGGACTTT AAAGTTTGT GAGCCAATAA 60
AGTCCCTTTC TTGTTTAAGA TAAA 84

SEQ ID NO:4149

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04886

SEQUENCE DESCRIPTION:

GATCTGAAAA GGCATTAATT TATGTACTAA TTCTATAAAC ATGTATTAAT AATTGCAGTA 60
TTATTAAATA CAGATGGACT CAAA 84

SEQ ID NO:4150

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04887

SEQUENCE DESCRIPTION:

GATCAGGCCC CCCAACTCTC CAGAACAGGC TACAAACATG CAAATTAGAA TTCTTTTAAT 60
ATAAAAAAAAA GTACTAAAAT AAA 83

SEQ ID NO:4151

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04888

SEQUENCE DESCRIPTION:

GATCAGAGGG NAGTACAGAA NCCCTGAACT AAAGCNTTAA GTACATACCA TACAGCAAAT 60
AAATGGTAGC AAAACATTCT AAA 83

SEQ ID NO:4152

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04889

SEQUENCE DESCRIPTION:

GATCTAAAAT TTGTAATATT TTTGTCATGA ACTGTACTAC TCCTAATTAT TGTAATGTAA 60
TAAAAATAGT TACAGTNACT AAA 83

SEQ ID NO:4153

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04890

SEQUENCE DESCRIPTION:

GATCACATGG TTCACTACCA AATNACCCTC AAATAAGCCA GATGAAAATT TGAAGAAAAA 60
GGTCACCCAG TTCTCTGGAA A 81

SEQ ID NO:4154

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04891

SEQUENCE DESCRIPTION:

GATCAGAGCG TAGTTTAAAN TGTATTTTGG ATACACTTGT GAAATATTTT ATAGAAATAA 60
AAATTTTAC TTAGGAGCAA A 81

SEQ ID NO:4155

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04892

SEQUENCE DESCRIPTION:

GATCCTTCCT CCCACCCTAN GCCTTCCTTT CCTCTTTCCT CCTCACTCTC CCCGTCATGC 60
TCCCTCTGCC CNGNCCTCAA A 81

SEQ ID NO:4156

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04893

SEQUENCE DESCRIPTION:

GATCCAAANT AGTAACNTT TNTNATGAAC TGTACTACTC CTAATTATTG TAATGTAATA 60
AAAATAGTTA CAGTGACAAA 80

SEQ ID NO:4157

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04894

SEQUENCE DESCRIPTION:

GATCATTAGT CAATTGCTTT AATTATAAGC CCTGTTTTTT TTAAATCTA AAAACTAATA 60
AACATCTATA AGAATTAAA 79

SEQ ID NO:4158

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04895

SEQUENCE DESCRIPTION:

GATCNACTGT CAAAAAGAAG GGTTCAGTA AAATAAAATG AGAGCAATTA TATATATAAA 60
TATATATCAT ACACAGAAA 79

SEQ ID NO:4159

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04897

SEQUENCE DESCRIPTION:

GATCACCTGA ATTCTGGAGG TTGAGGCTGC ACCACTACAT TCCAGCCTGG GAGATAGAGT 60
GAGAGCCTGT CTAAA 76

SEQ ID NO:4160

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04898

SEQUENCE DESCRIPTION:

GATCCCAAAT NTTCCACAA GCTTTATTCC AAAAATAATT TTATTTAATA GGTATTAAAT 60
AATGTATAGA AGGAAA 76

SEQ ID NO:4161

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04900

SEQUENCE DESCRIPTION:

GATCTTCCTG TTTCAGTCCC CAAGGTGTTG GGATTATGGG CATGAACTGC TGCACCCAGC 60
CCTTTATACT CAAA 74

SEQ ID NO:4162

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04902

SEQUENCE DESCRIPTION:

GATCACTGGT ATGTAGATAA TAAAATGTGA AAATAAAAAAT TTAAAAATAA AACAAAAAATT 60
ATGTGATAAT AAA 73

SEQ ID NO:4163

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04903

SEQUENCE DESCRIPTION:

GATCGTGCAA CTGCACTCCG GCTTGGGCTA CAGAGTGAGA CTCCATCAGA AAGAAAAGAA 60
GAGAGAGATG AAA 73

SEQ ID NO:4164

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04904

SEQUENCE DESCRIPTION:

GATCAGCATG TAAAGTGTCT GCGGTGTAGT AGGCTCTTAA TAAACACTGG CTGAATATGA 60
ATTGGAATGA TAAA 74

SEQ ID NO:4165

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04905

SEQUENCE DESCRIPTION:

GATCTCAACT CGTGGCACTA ACTTGGAAAA GGGTTGATTT AAAATAAAAG GGAAGACTAT 60
TTTACAAGCA AA 72

SEQ ID NO:4166

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04907

SEQUENCE DESCRIPTION:

GATCCTAAAC AGATGCATTG TTGCTTTTCT GTGCTGTCTC TGCAGATTAA AACATAATGA 60
TTACACTAAA 70

SEQ ID NO:4167

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04908

SEQUENCE DESCRIPTION:

GATCTATTAT GCCTTTTAC AAAAAAATG GCTGTAAATN ATTGTAAATA TTAAAGGAAC 60
TTTCCTTACT TCCTTCCCTT TCTCAGGCTT TTTTGACTG TTCCTTCCC TACCAACTCA 120
GGCCTTCTTA TTAAA 135

SEQ ID NO:4168

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04909

SEQUENCE DESCRIPTION:

GATCTCCCTG GAGGTTTCAT AGCAAGGTTT GACTTGATGA ATTAATTAAT AAAGCTAAAT 60
ATCCTGAAA 69

SEQ ID NO:4169

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04910

SEQUENCE DESCRIPTION:

GATCACCCAC GGGGAGGAGA AGGAGGAGTG AGACCCAGCC GGGTCAATAA ACCTGGACGC 60
TTGAAA 67

SEQ ID NO:4170

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04912

SEQUENCE DESCRIPTION:

GATCTGCTTA TAAATAAACT TAACAAATAC ACTATGGAGA TAAAAACAA AATACCACCC 60
ACAAA 65

SEQ ID NO:4171

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04913

SEQUENCE DESCRIPTION:

GATCTGTTTC TCTAGAAAAA AAGTCCATCT CTGGCTTTAA TAAAATTATG CATCAGAAAT 60
CAAA 64

SEQ ID NO:4172

LENGTH:76

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS04914

SEQUENCE DESCRIPTION:

GATCTCATGC TNAGCAGAGC AAAAATTGTA AAATATTTTG ATTAAAAATC TAGGGACCTT 60
TATGTCCTAT TTGAAA 76

SEQ ID NO:4173

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04915

SEQUENCE DESCRIPTION:

GATCAGGAAG TGGCTTTGTG TCTTCCACA TGTATGTATA AATAAAGTGT TCTTTAAGC 60
AAA 63

SEQ ID NO:4174

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04916

SEQUENCE DESCRIPTION:

GATCCTCATT TTTCCCATTT GTAAAATTGG GCTAATAAAA GATGCTACCT ACTGACTATT 60
AAA 63

SEQ ID NO:4175

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04917

SEQUENCE DESCRIPTION:

GATCAGGCTA CTGCACTCCA GCACTCCAGC GCAGGCAACA GAGGGAGACT CTTGTCTCA 60
AA 62

SEQ ID NO:4176

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04918

SEQUENCE DESCRIPTION:

GATCCTGAAT TTCCAGCCA ACAGAACCAA GTGCTAAATA AAACCTTTTT TAATAAGTTA 60
AA 62

SEQ ID NO:4177

LENGTH:62

TYPE:nucleic acid

01324

TOPOLOGY:linear

CLONE:HUMGS04919

SEQUENCE DESCRIPTION:

GATCAAACT CTGTTCTCAA AAATAAATAA AAAATAAAAA ACAAACAAC AACAACAACA 60
AA 62

SEQ ID NO:4178

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04920

SEQUENCE DESCRIPTION:

GATCACGCCA CTGCATTCCA GCCTGGGAGA CAGAGTGAGA AATAAATAAC TGTAATGTAA 60
A 61

SEQ ID NO:4179

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04921

SEQUENCE DESCRIPTION:

GATCCAAGCA AACTACTTTA AGCAAATATT TGTAATAAATA AAAACGGAGG ACCGCTCAAA 60

SEQ ID NO:4180

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04922

SEQUENCE DESCRIPTION:

GATCTAACAG TTCTCCAATA AAATAGTTCT CATTCCAGAG AGCAGATGAA TATATTTAAA 60

SEQ ID NO:4181

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04923

SEQUENCE DESCRIPTION:

GATCTATGAC TGTACTACAC TCCAGCCTGG TCAACAAAGC AAGACCATAT CTCTTTAAA 59

SEQ ID NO:4182

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04924

SEQUENCE DESCRIPTION:

GATCCAAGTA TTTNATCTGT GTTGTCTCTC TAAACCCAAA TAAATGTGTA AATGTGAAA 59

SEQ ID NO:4183

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04925

SEQUENCE DESCRIPTION:

GATCCAATAC ACACATANCT TACAACTATC ACAAATTCCT ATTAAATATT AAAAGTAAA 59

SEQ ID NO:4184

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04926

SEQUENCE DESCRIPTION:

GATCTCAAAN NGAAATCTTA TACCAGTGAC AACTGTATTA GAATATATCT GTTCTTAAA 59

SEQ ID NO:4185

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04927

SEQUENCE DESCRIPTION:

GATCTCATAT TAATATTTTA ATATTCTTT TCAAAATAAA ACAGAAAAGC AAGTAAA 57

SEQ ID NO:4186

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04928

SEQUENCE DESCRIPTION:

GATCTGTGTG TTCTTTCAAA GAGAAGTTAT GTCTAATTAA AATGTGTAAC GGACAAA 57

SEQ ID NO:4187

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04929

SEQUENCE DESCRIPTION:

GATCCGNGAG AGAACGACCA CAATTAAAC ACATCAATAA ATACTTTAAC TTCCAAA 57

SEQ ID NO:4188

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS04930
SEQUENCE DESCRIPTION:
GATCAAGAAG GACTACCTGT CATGTGAGAC CATCTAAG AAACCATTG CTGAAA 56

SEQ ID NO:4189
LENGTH:52
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04940
SEQUENCE DESCRIPTION:
GATCCCACTT CGGTCTGTAA ATTCCCTCAA TAAATCACCC AATATTGACA AA 52

SEQ ID NO:4190
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04945
SEQUENCE DESCRIPTION:
GATCCCCAAA GCTTAAAATA TCGACTATTT AGAGTGAGAC TCCATCACAA A 51

SEQ ID NO:4191
LENGTH:51
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04947
SEQUENCE DESCRIPTION:
GATCAGCCAN GCATTCCAGC CTGGTGACAG AGCGAGACTC TGTCTCNGAA A 51

SEQ ID NO:4192
LENGTH:56
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04948
SEQUENCE DESCRIPTION:
GATCTTGTTT GTTGAGGGAG ATGGGACTAT AATAAAATTG AATGCTGAAG TTGAAA 56

SEQ ID NO:4193
LENGTH:50
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS04950
SEQUENCE DESCRIPTION:
GATCGCGCCA CTGCGTTACA GCCTGGCGAT AATGCAGGAC TCAGTCCAAA 50

SEQ ID NO:4194

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04965

SEQUENCE DESCRIPTION:

GATCTGTCTT GTAAACCACA TTCTTGACAA CTATTGCTT TTGAGTAGTT TGTATTTTAA 60
TATGTGACTT TNGTCTTGAA AAGTAGTAAA GCCATAGACT TGTGCAAAAC AAA 113

SEQ ID NO:4195

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04985

SEQUENCE DESCRIPTION:

GATCATTATG CAATAAAGCT GCTAAAGTNA CATTTGTGGT TGATACTCAA GCCTTGATCA 60
AGCACATATN ATGTAGACAT TTTNAAATGT NAAGCTTTAA CAGGAATAGG ATAGCTGTTT 120
CAAACCTTGT GCAATTGTAA ATAAATTGTT TAGCTGTGTT TCTTTCATTT TNAATAAAAA 180
ATTAAAAAGA AA 192

SEQ ID NO:4196

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04986

SEQUENCE DESCRIPTION:

GATCAATTTG TAATTGCTTA CATTTTACA ATAAATAATC TGTACGTAAA 50

SEQ ID NO:4197

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04987

SEQUENCE DESCRIPTION:

GATCTTTCTT TGGCAACCAC TTTTACTGT CGCCATAGTT CTTCTTTTC TAGAATGTCA 60
TATTGGAATC ATATAGTATG TAGCCTTTTC AGACTGGCTT CTTTCACTTA ATAATATGCA 120
ATTAAGGTTC CTCCATGTCA TTTCATGGCT TAATAGTGCA TTTATTTTGA GCACTGAATA 180
ATACTCCATT GTCTAGATGA ATAGTTTATC CATTCACCTA TTGAAAGACT TCTTGGTGGT 240
TTCCAAGTTT TGGCAATTAT GAATAAAGCT GTTGTAACA AA 282

SEQ ID NO:4198

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04988

SEQUENCE DESCRIPTION:

GATCTTTTCA GTCAAAAATC TAAGATGATT TATTTTGTAT CACTTTGTGA AAAGCTGAAT 60
ATTGTTAACT ACAGTTAATA TTAACACTGT ATTTATACTT TCTCAAACTA CATCCGCCCC 120
ACCACTTCTG GTTGCCTCTG TTGACTATTA ATCCAGATGT AAACAACCAG ATGTTTTTTT 180
CTAACTTGTA CAAACTGACG TGTGTCAACT ATCATGGAAG GAAAAAATG TACAGATTAA 240
AATTATTCAG NGTTAAA 257

SEQ ID NO:4199

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04989

SEQUENCE DESCRIPTION:

GATCCAGGNG TTGACTATAA CCAGATTTAC TCTTTGCTTA CTAGGNTTTC CATNNTCACC 60
ATTGGATGAA CCNCTGGTTT AGCCACAGTT GTGAAAATAA ATGGAAGTTG GTTGATTGTC 120
TAGAAAGTGA AA 132

SEQ ID NO:4200

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04990

SEQUENCE DESCRIPTION:

GATCCGCATC CAAGCTTAAC CAAGGCTCCA ATAAACGTGC TAGGAAGCAA A 51

SEQ ID NO:4201

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04991

SEQUENCE DESCRIPTION:

GATCAGTCGC TGACTCATTG GATGAACCAG GAGCCTGCAT GCTACAGCCC ACCTGCCAAA 60
TCTTGCCCCC ACCTGCTTTT TAAAATAAAG TTTTATTGGA ACATGAAA 108

SEQ ID NO:4202

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04992

SEQUENCE DESCRIPTION:

GATCTTTGCT CTGTTTCCAG TGGGGTTTGA AGCAGAGTTC AGGGAACCCCT GCCCAAGGTC 60
CTCCTGTTCA GACATTCCTA TGTGAATAA AGTATGTTTG ACTTCCCCGG AAA 113

SEQ ID NO:4203

LENGTH:471

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04993

SEQUENCE DESCRIPTION:

```
GATCCACCT CAAATTAGCT TGATTGCAAA ACAGATATTG GAACATGGAG CTGAGAAGAA 60
GATGGTCTGG GCTTCAGGCA CAGCTGGGTC CAGGGACTCA GACNNNTTG TCTCCATCTA 120
TCTNCTGTGT TTNCTGTAG GAGGTGGCCT CACTTTCCCC TAGTTCAAAA GGGCTTACTC 180
CATATGATGG GGAAGGGAA GACAGGNCCA TGAACAGCCC TAGACTTCCA TCAGCCCACC 240
TGGGAAGCCC TCACAGGAAA ATNAGTCTCA TTCCTAGTAC ATGAAATCTC AGGGGAGGGA 300
ACTCCGATTG GGCCACCTTC AGTNATGTGC CCNGTCCCTN GGGGCCAAAT CCNCTTTTGG 360
GTTGGTGGGG GCGGGTTTCA AGTGATTGGG NAAATNGCCA ACCNAAAGTT CANGTTNGAA 420
GTTGGAGNAA NGGGAANTT TTNCCCAAAA AGAAANGGNA AGGTTTGNTA N 471
```

SEQ ID NO:4204

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04994

SEQUENCE DESCRIPTION:

```
GATCAGGAAT GGGTGATTGG AGATTATTAG ATTCTAGGTT AACTTCTACC ACTTTACCTT 60
AATACATAAA ACTTTTTCCT AAATAAATGA TGGAAGGAAT AATACTTGGT TACCTGGCAT 120
TATTTTTCAG TAAGAAAAAA GCTTTACTAA CCACTACATT TATGGAAATT TGTAGGGGTA 180
AGTATTTTAT AGGTCATAAA AAACACCATA ATATAACGAA TCTCATTTNC TTTAAATGTG 240
AATTAATCC TAACAGTCAT CTTTATAAAA TGACCATAGG CTAAANTCTT ACGTGTAAGT 300
NCTACTACAN TAAATANTTT CTGGAACCT TTTATAAA 338
```

SEQ ID NO:4205

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04997

SEQUENCE DESCRIPTION:

```
GATCACCTTC CAGACCACAG CAGATGTGGG ACACACAGCC TCCTGACTCC AGGAAGAGCC 60
AGANCTGTGC AGGGAGGAAG GGGTGAGAGG GGGGCCCCCA CACCTAGACT CAGTAAGGAA 120
GTCGGGTNG ACCTTAACAT CTNCATTGGA CAACTCCACC CNTNCCTTGG CCTTGCCCTT 180
GCCCCNNTAC ACTCCTACGT NTCCANGGCG TTNGGCCGTG ACTTAGGNAG AGGAGTN 237
```

SEQ ID NO:4206

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04998

SEQUENCE DESCRIPTION:

```
GATCATCCGC AGNCTCATGT TAAAAGGATT TTAGCTCACT AAAAGTGTA TAATGGAAAT 60
GTGGAAAATA TCGTAGGTAA AAGAACTAC CTCATGCTCT GAAGGTTTTG TAGAAGCACA 120
```

ATTAAACATC TAAATGGCT TTGTTACACC AGAGCCATCT GGTGTGANGA ACTCTATATT 180
 TGTATGTTGA GAGGGCATGG ANTAATTGTA TTTNGCTGGC AGTAGACACA TTCTTTATTA 240
 TTTGCAGATT CCTCATCAA TCTGTANTTA TGCACAGTTT CTGTTATCAT TAAACAAAAG 300
 GAATCCNGTT AAA 313

SEQ ID NO:4207

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS04999

SEQUENCE DESCRIPTION:

GATCACATCT NTNTGAAGCC AAAGCCCCGT GGTGCCCCAT GAGAAGTGTC CTTTTTCATT 60
 TTCACCCAAA TGAAGTGTGA ACGTGATGTT TTCGGATGCA AACTCAGCTC AGGNATTCAT 120
 TTTGTNTCTT AGTTTTATAT GCATCCTTAT TTNTAATACA CCGCTTCAC GTCCTATGT 180
 TNGGAAGTCC ATATTTGTNT GCTTTTNTTG CAGCATCATT GCCTNTACAA TACTGNCCGG 240
 TGGACAAANT GACAATNGAT ATGTNTTGCT N 271

SEQ ID NO:4208

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05001

SEQUENCE DESCRIPTION:

GATCGCACTG TGGGCCGGGG CCCTGGAGGG CTGCTCTGTG TTAATAAGAT TGTAAGGTTT 60
 GCCCTCTCA CCGTTGCCG GCATGCGGGT AGTATTAGCC ACCCCCTCC ATCTGTTCCC 120
 AGCACCGGAG AAGGGGTGC TCAGGTGGAG GTGTGGGTA TGCACCTGAG CTCCTGCTC 180
 GCGCTGCTG CTCTGCCCCA ACGCGACCGC TGCCCGGCTG CCCAGAGGCT GGATGCCTGC 240
 CGGTCCCCGA GCAAGCCTGG GAACTCAGGA AAATTCACAG GACTTGGGAG ATTCTAAATC 300
 TTAAGTGCAA TTATTTTAA TAAAGGGGT ATTTGGAATC AGAAA 345

SEQ ID NO:4209

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05002

SEQUENCE DESCRIPTION:

GATCTTACTT TCATAATTCT TTGATTCTAG CTGTCAGAGT CAAGACGNAA AGNTAACTCA 60
 TGGGATGGAC AACTGGAAG ATGTAAAATA AGTAAGGCTT TNTGGGCCAA AAAGCCTCTT 120
 CTTACAGAAA ATCAATTTT AAAAGAACAT TGACCTCAA ACAATAAAAC TGTCTGGTT 180
 ATGCAATAGA AATAGCTATA TAAATGGAAT CATATCCTTA ATGAACACCT CCTGTGGCTA 240
 CCCAACTTTT CACACATCTT ACTGATTATA GGCCTTGCTG TGAATGCTTT CTTGCTCTAT 300
 CTGAAGTATT CCCACCAGAG TTGTTTCCAA CNTTATTCC TATATTATGA AAAATGANGT 360
 TTTTTTAAAC TTGTAACAAA GTATTTGNAA GGTAATGTAT ACTGTN 406

SEQ ID NO:4210

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05003

SEQUENCE DESCRIPTION:

GATCTAAAAA AANNTAAATT ACATTAGTAA CACAACATAA GAAAAAGACA GGGACAAAAA 60
CAAAAAAAA TAAA 74

SEQ ID NO:4211

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05004

SEQUENCE DESCRIPTION:

GATCCTATGT GGAAGGGCTG TTTTAAAGA AAAAATTTT GGTAACAGT ATTGTGTAAA 60
ATTGCTTTT GTATACCAAT ATATGCATGT TTTGTGCATG AGTAGTACTT GTGTTGATAC 120
TCCTGTGAT GTTAAATTAC TATATAATAT AANCAGTATG TGTTTTATA TATCATTGTG 180
TAAATTAAT ATAACATATG CNGTAATAAN CCATTNGTNT TACGGGCAAA 230

SEQ ID NO:4212

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05005

SEQUENCE DESCRIPTION:

GATCTCAATC AAGTTAGCAT GCTTNCTCCA GCTGCCCTAT NACCTGCCAG CTCATCACAA 60
AGAACCACGG CCACCCAGGT CATGGCAAAC TCTGCTGGAC TTAAC TTCAT CAATGTAGTG 120
GGCTCTNTT GTGGGGCCA GGCTTTGATG AGTNGGNNNN N 161

SEQ ID NO:4213

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05006

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCCA ACATGGTGAA ACCCGTCTC TACTAAAGAT AAAAAATTA 60
GCTGGACATG GTGGCGGGCG CCTGTNTTCC CAGCTACTGG GGAGGCTGAG GCAGGAGAAT 120
GGCTTNGAGG CAGTAGAACT GCTTGAACCC TGGAGGCGGA GGTTACAGTT ATCCGAGGTT 180
GTGTCATTGC ACTCCAGCCT GGGGAACAGA GCGAGACTCC ATCTCAAAA AAATAAAAAA 240
CTTCAGCTTT TGCATGAAA 259

SEQ ID NO:4214

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05007

SEQUENCE DESCRIPTION:

GATCATGCTT TAAGGTTTAT GTAAAGAAAG TGTACTGATG TTCTTACATT AAAGCTTTAC 60
 AAAGATTAA A 71

SEQ ID NO:4215

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05008

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCTG TCTATGATTC TNGCTCAGCA AAGTAAAATA AATGTAAAT 60
 ATGAAA 67

SEQ ID NO:4216

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05009

SEQUENCE DESCRIPTION:

GATCAATGA AATAATGTAC ATGAAAAGAC ATATATAAAA TGTATAATAC AGACAAAGGG 60
 NCCTGTTACA CAGTTGGAAG TCATNCCCTC AGATTTTGGG CCTAGGAAGG TAGGTGATTT 120
 AAACCTACTG AAAGCANNNGN NNN 143

SEQ ID NO:4217

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05010

SEQUENCE DESCRIPTION:

GATCACAGCC ACTGGTCCAT AACAATTAGG AAAACTCATT GGACAATGGT TGTCAGGTTC 60
 CTCCATTGGA GGGAATTGTG TTTCATGATT AGGCACTGTT TCTGCTCCTT AAAAATGACT 120
 TTCCAGTCTA TCCTCCACAG CTCTTTGTTC TACTCTCTAG GGAATCATT TTTTCCCTC 180
 ATCTTCCTTA GTCACCTTGCA AAGGACATTA GAGAATATGC CCTTTTGGT GGATAAATGG 240
 GTTCTTCAAC CTGCTTTCTG CCTGTAGAAA ATTAGAGGCC AATAATCTGT TTATATCTTG 300
 TAGAATGTCT ATTTTAGCTG GTACCGGTAC TTTGTCAAT AAAGTCTTT TTAAACTTA 360
 AA 362

SEQ ID NO:4218

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05011

SEQUENCE DESCRIPTION:

GATCTGNAA GAGCACATAT GTGTCAGGGC ACAATTCCCN CTCATAAAAA CCACACAGCC 60

TGGAAATTGG CCCTGGCCCT TCAAGATAGC CTTCTTTAGA ATATNATTTG GCTAGAAAGA 120
 TTCTTAAATA TGTGGANTAT GNTTATCCTT AGCTGGAATA TTTNCTCTAC TTCCTGTCTG 180
 CATGCCCNAG GCTTCTGAAG CAGCCAATGT CGN 213

SEQ ID NO:4219

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05013

SEQUENCE DESCRIPTION:

GATCACTACA ACANTTTNTT TGCCTCCAAG GTCCTCTGAG GCAGCAGGCT CTGGGGCTTC 60
 TNCTGTCTT TGGAGGGTGT CTTCTGGGTA GAGGGATGGG AAGNAAGGGA CCCTTACCCC 120
 CGGNTCTTCT CCTGACCTGC CAATAAAAAAT TTATGGTCCA AGGGAGAAA 169

SEQ ID NO:4220

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05014

SEQUENCE DESCRIPTION:

GATCGCGCAG GATTTCAAAA CCGACCTGAG GTTTCANAGC GCANCATCGG TCGCTGCAG 60
 GAGGCTAGCG AAGNANCCTG GTGGGTCTGT TCGAAGATAC CAACCTGTGT GCCATCCACG 120
 CTAAGAGAGT CACCATCATG CCCAAAGACA TCCAGTTGGC TCGCCGGATA CGGGGAGAGA 180
 GAGCTTAAGT GAAGGCAGTT TTTATGGCGT TTTGTAGTAA ATTCTGTAAA ATAAA 235

SEQ ID NO:4221

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05016

SEQUENCE DESCRIPTION:

GATCAAAGTC CTACAGTGGC TGTCACGCAG CCACNAGGTC ATCTCCTTTC ATCCCCACCC 60
 CAAGGCGCTG GCTGTGACTC TGCTTCCTGC ACTGACCCAG AGNCTCTGCC TGTGCATGGC 120
 CAGCTGCGTC TACTCAGGTC CCAAGGGGTT TCTGTTTCTA TTCTTTCCTC AGACTGCTCA 180
 AGAGAAGCAC ATGAAA 196

SEQ ID NO:4222

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05018

SEQUENCE DESCRIPTION:

GATCTGCACC AGACTGTTAC CTTCTGGGGG AGATGGAGAT TTGACTGTTT AAAAAGTGAA 60
 AACAGCGAGG AGTCTTTCTA GAACTTTTGA AACTAAAAG GATGAAAAAA ATTAGCAAAC 120
 CGAAGTTTCT TCAATGACCC CTCGAGAACT TTGGGACCAG TTTCCTATGG GGGACTCAGT 180

TTCAGAGAAC TGAGACAGAA GCTCTTCTGT CGTTATATTC TTCTTTCCTT TTTTGGATT 240
TATTAAATAT TTTCTGTGGA AA 262

SEQ ID NO:4223

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05019

SEQUENCE DESCRIPTION:

GATCCTGCAG TGTCTGTGG GTTCATCTCG GATGGGCGCT GCATAAACAG CCTGCAGGGA 60
ACGTCTGGGA GAACCAGCTT CACAACAGAT ATAATAAGGA AGAAGTTGA AATATTGCAA 120
GANTTGCAG AGTGTGACAC ACAGATACAA AGTGGGCACA TGCTCGTGGG AAAATGTTGC 180
CAATAGACTT GCTTGACTCT GGAGTTACCC CGAACCTTCA ATTTGTTAA AAAAAAAAAA 240
GGGCANTTTN TTGNNNGCA NTAAGGTGNC CTGCAA 277

SEQ ID NO:4224

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05021

SEQUENCE DESCRIPTION:

GATCGCGTCC ACCTTCATCG CTGTGGTGCA AGCCATCGTC CGCACGGCTG GTGGCTGGGC 60
AGCTGCCTCG GACTCCAGGA AAGGCGGGGA GCCTGCCGGC TACTGAGTGC TCCAGGAGGA 120
CAAGGCTGAC AAGCAATCCA GGGACAAGAT ACTCACCAGG ACCAGGAAGG GGAAGTCTGGG 180
GGACCGGCTT CCCCTGTNAG CAGCAGAGCA GCACAATAAA TNAGGCCACT GTGCCAGGNT 240
CCAGGTGGCC TNCCTGGNCT GTTCCCAA A 271

SEQ ID NO:4225

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05023

SEQUENCE DESCRIPTION:

GATCCACGGA AGACTGTCAG CAGACTTCAC CAGAAAATT TCACGCCAGA NGGCAGTCGT 60
GATATATACA AAANGCTGAA AGGAAANCAC TGCCATCCAG GANTACTATC TCCAACNTC 120
CTGTGTTTCA AAANTTAN 138

SEQ ID NO:4226

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05024

SEQUENCE DESCRIPTION:

GATCTGCATT TAAAAATATG GTCTTTGTTT TATATGATTA AATGGTTTGT TTTCATAGAT 60
GAAA 64

SEQ ID NO:4227

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05025

SEQUENCE DESCRIPTION:

GATCCCGGCT GTTGGTGAGC AAAGAGCCCA GGCCCCTAGA GTGCGCATGT NCAGGCTCCG 60
CTGTTAGANT CACAGCGGTT CAAATCCGGC ATCTGGTCGC TGAGTGGCCT CAGGCAGTGA 120
CCACGCTCCC GGACCCAACC TTCAGCTTGC CCAAAGCAAT AATCTTCTT AAAGAAGTGC 180
TTGGNTGGGG ATGGTGGCTC ACGCTTGTA ATCCCAGTAC TTTGGGAGGC CAAGGCAGTC 240
TGGGCAATAT AGTGAGGCTC CCATCTGTAC TAAAAATAAA AAAGTTAGGC GTGAAA 296

SEQ ID NO:4228

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05026

SEQUENCE DESCRIPTION:

GATCAGACCT CTCATGCTGT GGAGATGAAA AAGCCCTAAA GTTTATGTTT CTAATGTGTC 60
ACAGAATAGG ACGATATGAT TCTACAACAT AATCAACTCC CTATTAAATT CTTAATGAA 120
GATTTTTTTT TAAA 135

SEQ ID NO:4229

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05027

SEQUENCE DESCRIPTION:

GATCCTCTTT CTAGCATGAA TGAAGGATGC CAAGAATGAG AAAAAGCAAG GGGTTTGTCC 60
AGGTGGCCCC TGAATTCTGC GCAAGGNATG GGCCTGGGGG AACTCAAGGG AGGGCCTAAA 120
GCACTTGTA CTTTGAACCG TCTGTCTGGA GGTCAGAGCC TGTTGAAAG CAGGGGTAGA 180
GGGGAGCCCT GGAAGCAGGG CTTTCCGGA TGCCTAGGGG TGGGCAGTGC CAGCCCCTCC 240
TCACCACTCT TCCCCTTGCA GTGGAGGAGA GAGCCAGAGT GGATACTATT TTNATTAAA 300
TATATTATTA TATGTTAATA AAAAANTCAT ATCCAAA 337

SEQ ID NO:4230

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05028

SEQUENCE DESCRIPTION:

GATCCTTCGC GAGCGAGTGA ACAAGAGGCG GGTGAAGGAG ATGGTGAAGG AGTTCACACT 60
GCTGTGCCGG GGTCTCCATG GCACAGGGTA CACAGCTGAC TACTGAGGGG TGCCCCATC 120
CCATCCACCC CTCTCTTCA TCCTCCCTA TTCCCAAAGN GTAAACCTGG NCCCTNAAA 179

SEQ ID NO:4231

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05029

SEQUENCE DESCRIPTION:

GATCGCTGGA CGCTATGAGA GGGCGTCCCA GGGCCCAGCC TCCCACAGCC GTTTCAGCAG 60
GGACAGGGGC TGAACAGGCC CTATTCCAGC CCCCTTGCTT CACTCTACCG GACAGACGGC 120
AGCAGTCCCA GCTCTGGTTT CCTTCTCGGT TTATTCTGTT AGAATGAAAT GGTTCACATA 180
AATAAGGGGC ATGAGCCCTT CCTCAAA 207

SEQ ID NO:4232

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05030

SEQUENCE DESCRIPTION:

GATCTGAAAT AGTTTTCTTC CACTACATTG TTGAAATCAA TGAAGCAATT AGTTTCTCAT 60
TCAGAAATGT GCACACTAAT ATTTAGTTTT GCTTCTCGT GGATAATATT AAGCNCTTAC 120
TCTGCAGTTT CCTGGAAGTT GTGTCAACTG CAGTGATACT ATTCAGGATG GTGGGAAATC 180
CCCAAAAATA TGTATGTGTG GGCTTGCTTA GATTACTATA TTTCATAGTT AATCTTTTGT 240
CTCTTGCGGT GCTCATGATG TGTGGGGCAC ACGGAAGGCA TTGCTGTAGT CAGTCATTTT 300
GGTTTTCTTC TATAGCCATT TTATTATTTT AGTGTATTAG TTATGAAGAT AATATTNNCT 360
ATTTGTAAAT NGCTACTTTG TATTTN 386

SEQ ID NO:4233

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05031

SEQUENCE DESCRIPTION:

GATCTTCANA TTGCTGTGAT TAATGCATCC AGATTNTTTT CCTAGTATTT CCAGGTTAGA 60
ACCTGTGGAT TGTTTCANTT GCATATAGCT TGGTTTCCAT AACATAGAGC ATTGGTTGAC 120
TGTTTACAGA AGACTCACTC ACCAGGATAA ACATTGCNGT ATGTNACAGT AAAGCTATCT 180
GGAGAGANCA CATAAATGAT TTTGGCATA CATTAGAGAA ACCATTTGTA AACTCAAAT 240
GNCCACATAA NGCTTATCAG GGGGTCTAGA TTGGTNTTGT NNTATACCAT ATGGGATGAN 300
GNAAANTAGA AATGTCAGTA GAACTCATTG AGGGTGCTCT NGCCAGCTGC NGANAN 356

SEQ ID NO:4234

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05033

SEQUENCE DESCRIPTION:

GATCTGCTTT TTTNAAATGT TAAGGACATA TTTTNAAGTT ACTGCTGAGT GAAGAAAGAA 60
 CATAGCTCCC CCTCATTCCC TGCCTAAGAA AGGAGCTTAA AGAAA 105

SEQ ID NO:4235

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05034

SEQUENCE DESCRIPTION:

GATCAGGGCC TTCCTGCTC CCGCTGGGCA GGTCTGGCCT TGCNCTCTTG GCAGGGCCCC 60
 AGCCCTCTA ACCACTCTGC AGCTCACCAT GCAGCTGATG CCAAANTTGT GGTGTCCAGT 120
 GTGCAGCAGC CCTGGGAGCC ACTGCCACCT TCAGAGGGGT TCCTTGCTGA GACCCACATT 180
 GNTTCACCTG GCCCCACCAT GGCTGCTTGC CTGGCCCAAC CTAGCGTTCT GTGCCATGNT 240
 AGAGCTTGAG CTGTTGCTCT NCTTCAGGGG AGGAAATAGG GTNGAGAGNG GGAAGAGNNT 300
 TNGCTCTAA GTGTTGCTGC TGTGGCTTTT TTTGCCTTCT GCN 343

SEQ ID NO:4236

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05035

SEQUENCE DESCRIPTION:

GATCATTCA AAACCTATTT CCTATGTAAC TGCATTGAGA ACTGCATATG ATTCGCTGAT 60
 ATATGTGTTT TTCACATTTG CGAATGGTTC CATTCTCTCT CCTGTACTTT TTCCAGACAC 120
 TTTTTGAGT GGATGATGTT TCGTGAAGTA TACTGTATTT TNACCTTNTT CCTTCCTTAT 180
 CACTGACACA AAAAGTAGAT TAAGAGATGG GTTTGACAAG GTTCTTCCCT TTACATACT 240
 GCTGTCTATG TGGCTGTATC TNGTNTTCC ACTACTGNTA CCACANCTAT ATTATCATGC 300
 AAATGCTGTA TTCTTCTGTT GGGTGGAGAN AAAGGATTTC TTGNAGGTTT NGTTTTTAAA 360
 ATTNAAAGCN 370

SEQ ID NO:4237

LENGTH:529

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05037

SEQUENCE DESCRIPTION:

GATCTGTTTC GTGCATTGGA AGACCCACCC CAAGCTTGGC AGNCGAGCNN ATTGTATCCT 60
 GGGGCTCCCT TCATCTCCAG GGAGTCCNNT CCCCGGCCCT ACCAGCGCCC GCTTGGCTGA 120
 GCCCCTACCC CACACCAGGC CGTCCTCCCG GGCCCTCCCT TGGAAACCTG CCCTGCCTGA 180
 GGGCCCTCT GCCCAGCTTG GGCCAGCTG GGCTCTGCCA CCCTACCTGT TCAGTGTCCC 240
 GGGCCCGTTG AGGATGAGGC CGCTAGAGGC CTNAGGATGA GCTGGAAGGA GTGAGAGGGG 300
 ACAAACCCA CCTTGTTGGA GCCTGCAGGG TGGTGCTGGG ACTTAGGCCA GTCCAGGGG 360
 CAATGTATTG GCCTGGAAGG TGGGGTTTGG GATTNNGGG GCTTGGTGCC AAGCTTTCCT 420
 TTTNNANGNT GACCTTTNTT TNGTNCCTNC CCCTTTGGGG NGGGNTNAAA AGNCCCAAGT 480
 TTGANANTGG GAAATAAANT TTTTTGGGC CTCCGGNTTT CCCTTNAAA 529

SEQ ID NO:4238

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05039

SEQUENCE DESCRIPTION:

GATCGTTTTC TGATTGTAT GCTTCACAAA CTTGGATTG ACAAAGAAAA TGTTTATGNN 60
NGAATTGCGA CAGTGTATTC GCAACTNTCC TCAGTTCAGA TTTGACTGGT TTCTTAAGTC 120
CAGAACTGCA ATGGAGCTCC AGNGGAGATG TAATACCTA ATTNCTTTGA TTGAAAGAGA 180
AAACATGGAA CTAGAAGAAA AGGAGAAGGC AGAGAAAAAG AAACGAGGAC CAAAGCCTTC 240
ANCACAGAAA CGTAAATGG ATGGCGCACC TGATGGTCGA GGTAGAAAAA NGTGGCTGGA 300
ANCTATGNNT ATGGTTTTNT TTCATAATC ACTNAGCTT ANACCNAGTA GTTCCTNTNA 360
NTTTN 365

SEQ ID NO:4239

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05040

SEQUENCE DESCRIPTION:

GATCATTACA ACANTTGTNT GCCTCCAAGT CTTGAGGCA GCAAGTCTGG GGCTTCTGTN 60
TCNTTTGAGG GTGTCTTCTG GGTAGAGCGA TGGGAAGGAA GGACCCTTAC CCNN 114

SEQ ID NO:4240

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05041

SEQUENCE DESCRIPTION:

GATCATCCGC GCGGCCCGGG CTCGTGGGGC GCCTGGAGTG AGGGTTCTGG TTCCCGCCGG 60
CGAGGATTGT TAAATNAGT CTTCGGAAGN AGACCCCTAG TGACTTCTTA AAGCAAATCA 120
TCGGACGACC AGTTGTGGTA AAATTAAATT CTGGAGTGGT TTATCGAGGG GTCCTGGCTT 180
GCCTGGATGG CTACATGAAT ATAGCCCTGG AGCAGACAGA AGAATATGTA AATGGACAAC 240
TGAAGAATAA GTATGGGGAT GCATTTATCC GAGGAAACAA TGTGTTGTAC ATCAGTACAC 300
AGNAGAGACG GN 312

SEQ ID NO:4241

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05042

SEQUENCE DESCRIPTION:

GATCGGAGTA CANAGTNACA NTTGGAGGGC AGGGGGACTN TAAGGCAAGG AGATTACAGT 60
TGGGAAGGAG GCAGTGGCAG AGGGGTGAGG GACAGGGGCC CTTAAGTCCA GCGAGGAAAG 120

CTCGGTGTGG GCCCGTCTAC GCTCCGTTTG GGGTGACCTG GAACGCCTCT TCTACAGCTC 180
 CTNCAGCATC AGCAGCCTCT TGTCAAGTTT TGCCTCGCCC ANTCTATCCC AACCCAAATA 240
 AGACACTTTC TTCACGNCAT ATTATCTTTG TCCTTTCTTT TTTAAGAACA TCACAAAACC 300
 ATGAAA 306

SEQ ID NO:4242

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05043

SEQUENCE DESCRIPTION:

GATCTTAAAC CCAGTCTTGA CAGACTAGAA GTTAAGTTA ATACAGAAAA TGTCCTGTTC 60
 ACTTGAAAGA AAAGACCTAC TTTTAAATG GACACTATCT TGGTTCTTTT TTTTAAAGTC 120
 ATCTTTTGT TATAAGTGAC CTTTGTCTGG AATGTCTGAA AAGTAGTTAA TGCTTTTNGG 180
 TATTGAAGTA ATGGGTAACT AAAATGGACT TCCATAGTAT TGA CTGTAGA AGGAGCCTCT 240
 ACAATATTGA CTATATATNN NNATAAACTA CTGGCAAGGN ACTTAAA 287

SEQ ID NO:4243

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05044

SEQUENCE DESCRIPTION:

GATCTCCACT GTTGGGTGGG TGGGCCCTGC CGGGACCCTG CTTACAGGC AGGCTTTTCC 60
 TCCAACCTGT GGCCTGCAG CAGGGCAGGA AGGGGAAACA CAGCTGATGA ACTGTGGTGC 120
 CACATGACCC TTGTGGCACA GATGCCACG TATGTGAAAC ACACATGGAC ATGTGTCCA 180
 GCCACAGTGT TATGCTCTGT GGCNGGCTCA CCTTTGCTGA GTTCCGGGGT GCAATGGGGG 240
 AGGGAGGGAG GGAAAGCTTC CTCCTAAATC AAGCATCTTT CTGTACTTG ATGTTCAATA 300
 AAAGAATAGT TGGCAAGGCT GAAA 324

SEQ ID NO:4244

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05045

SEQUENCE DESCRIPTION:

GATCATTCAT ATGTGTACAT AAAATTTTAA AAATAAAGGG AATTGACTGC TTTGTTAATG 60
 AGAAA 65

SEQ ID NO:4245

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05046

SEQUENCE DESCRIPTION:

GATCCAGAGA ATGAATCCCT GACCGCATCA CCTAACTGT CTTCCAAACA TGAGACAAAG 60
 CTGACTGTTT ACCTGATTG CCCAGCACAT ACCGCTCTGC CAGTTTCTTC TTTTCTCCA 120
 GTCTCCTGTT CATCCATTCT GTTCTCCCTT GGGGTGGGAA TCTATGATGG AGGTTACTGG 180
 GGAAACAGCT CAGCAGATTT TTGGAGACCA AACCAAAGGT CTCACTAGGA AATTTATCTG 240
 TTTTAAACA TTGCTTCCTT CCTGGCTCTG CTAAATTGAA TGCTCATN 288

SEQ ID NO:4246

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05047

SEQUENCE DESCRIPTION:

GATCTCTGCT CCTAACGATG AAGACTGGGC CTATTCACAG CAGCTCTCTG CCCTCAGTGG 60
 TCAGGCGTGC AATTTTGGTC TGCGCCACAT AACCATCTG AAGCTTTTAG GCGTTGGAGA 120
 GGAAGTTGGG GGAGTGTTAG AACTGTCCC AATTAATGGG AGCTCTGTTG TTGAGCGAGA 180
 AGACGTACCA GCCCATTGG TGAAAGACAT TCGTAACTAT TTTCAAGTGA GCCCGGAGTA 240
 CTTCTCCATG CTTCTAGTCG GAAAAGACGG AAATGTCAA TCCTGGTATC CTTCCCAAT 300
 GTGGTCCATG GTGATTGTGT ACGATTAAAT TGN 333

SEQ ID NO:4247

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05051

SEQUENCE DESCRIPTION:

GATCCTCCAC AGAGAGGAGG GGACCAATTC TGGACAGACA GATGTTGGGA GGATACAGAG 60
 GAGATGCCAC TTCTACTCA CCACTACCAG CCAGCCTCAG AAGGCCCCAG AGAGACCCTG 120
 CAAGACCACG GAGGGAGCGA CACTTGAATG TAGAATAGGC AGGGGGCCCT GCCCCACCCN 180
 ATCCAGCCAG ACCCCACGNT GACCATGCGT CAGGGGNCTA GAGGTGGAGT TCTTAGCTAT 240
 NCTTGGCTTT NAGAGCCAGC CTGGNTCTGN CCNCTCCNC CATGGGNN 288

SEQ ID NO:4248

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05052

SEQUENCE DESCRIPTION:

GATCTCTAAG TGACCACCAG GGGCTCTGAA CTGCAGCTGA TGTATCAGC AGGCCATGCA 60
 TCCTGTGCC AAGGTGGAC ACGCTGCAG ACTTCTGGG GAATTGTCG CTCCTGTCT 120
 TTTGTTACTG AGTGAGATAA GGTGTTCAA TAAAGACTTT TATCCCCAAA 170

SEQ ID NO:4249

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05053

SEQUENCE DESCRIPTION:

GATCTACATA GATTGGAAA CTGTTTTCCT CTGTTTGGT CTCTGGGCA ACATTTTGG 60
 CCCAAGTTTG GGCAACATTT GGCCCAAGNT TGGGCATTTT GGCAGTAGCT GTATGGNAGA 120
 AAAAGAGTAA GAGGAN 136

SEQ ID NO:4250

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05054

SEQUENCE DESCRIPTION:

GATCNTTTGC TTTAGNGTGT AAAGTNTGTC TCTGAACAGA ATTATTTGTA AAAGTTAGGA 60
 GTTCTTTTTT AAATCATTAA AAGAGGCTTG NTGAAGGAAA 100

SEQ ID NO:4251

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05055

SEQUENCE DESCRIPTION:

GATCCTAGAG CCCTTCACTT CGGNTTACTC CCTCTTTTTT GCCTCTNTTT NNTAGTTGGA 60
 AGAAATAAAC TCACAAATTA TGGTGCAGTA ATTNCCGGG GAAAGTAAAG CCTCAGGAAT 120
 GCCCACGCCT TTTTCCAAA GCCTTTNTCT CTGAGACCTC TTAAGTTCTA AGATTAAATG 180
 CCCCTCGCTG TTTCTCCTCT GAAA 204

SEQ ID NO:4252

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05056

SEQUENCE DESCRIPTION:

GATCAAGGAG CAATTATGAA GGTCTACAAG CAAGANCAAG AGGAAGAATT ATNGAAAAAG 60
 TTGGCAAATG NCCCCAGATG GAAGAGATAC AGGAGATGGA TGAAGAATGA AGGGCCTGGG 120
 CGGTTAACAT TTGTGGATGA CTGANGATTG ATGGAATGCT ACTATGCCAA ACCTTAATTG 180
 TGATATTATT TTCATAACTG ANTTATTTTA GAAATGTATC ANTNGACTGC TGCTCAGCAG 240
 TAACTAAAAT TCCTCAAGTA TTTGATTAAA CAGATTAATG TCAAANTTTA AACCTTCCCT 300
 TAAAACCTTN 310

SEQ ID NO:4253

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05058

SEQUENCE DESCRIPTION:

GATCTAATTG CATTGGTTAA AAGCAGCTAA CCAGGTCTTT AGAATATGCT CTAGCCAAGT 60
 CTAACCTTTAT TTAGACGCTG TAGATGGACA AGCTTGATTG TTGGAACCAA AATGGGAACA 120
 TTAAACAAAC ATCACAGCCC TCACTAATAA CATTGCTGTC AAGTGTAGAT TCCCCCCTTC 180
 AAAAAAGCT TGTGACCATT TTGTATGGCT TGTCTGGAAA CTTCTGTAAA TCTTATGTTT 240
 TAGTAAATA TTTTTTGTTA TTCTAAA 267

SEQ ID NO:4254

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05059

SEQUENCE DESCRIPTION:

GATCANAAC CAAACGGGCC GGNNTTCTA AGGTGTNGGT ATGTGGGGAG TGGTACAAAA 60
 TGGTCTGATG CTCCTTCAAA AACATTCCT TTTTACAACG TCAAGGAATT AAGCATAAAA 120
 AAGATTGGTT AAAAGCTTG GTTCTAGTA AAGGTAGTG TGTGTGGTTT TTTTAAGAAG 180
 CTGTNTTGCT AAATNATTTT TACTTGAAT GTTTCAAACA GATTTCAAGC TGCAAACCTG 240
 TTTNATAATC GTNNGCTTCT CCAAGTGAAG CTTCAAGGAAT ACCTGGAAAA TAGCTGTAAC 300
 GTTCGCN 307

SEQ ID NO:4255

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05060

SEQUENCE DESCRIPTION:

GATCTAATAA AAATTGAAAT ATGCCTTTTA GAATGGCTTT CAAAGATAAC AAATGCTGGA 60
 GAGGATGTAG AACAACTGGA ACCTCTCGGT TATTGCTGGT GAGACAGCCG CTTTGAAAAA 120
 GTTTGAGTTT CTTACAAAAT TAACTTACA CTTACACTTA CCATATGACC CAAAAATTCC 180
 ACTGCTTGCT CTTTACTCAA GTATAAGGAA AATCTATGTA CACACAAAAC TNGTACGTGA 240
 ATATTTATTA ATAGTCATTT TATGCCCCAA ACTAGNAATA GTCCAAATGT TCTGGGN 297

SEQ ID NO:4256

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05061

SEQUENCE DESCRIPTION:

GATCTNTATT NTTTTNGCAA CAGACTTCAA GTGGTCCCTC TTTTTCCCT ACACACTCAG 60
 CTCTTCTCTA AAAGCAAGGA TTTGGAATGA NCAATTCAGT TTGACAGAAA AAGCTGAATA 120
 AAATGGCATC TGTAATTGAN TTGTGGAAA TGCCTTTTGN GCTCCTAAAT NTTAAACATC 180
 ATTAATAAAA TANTGTTTCA CAAAGAAA 208

SEQ ID NO:4257

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05062

SEQUENCE DESCRIPTION:

GATCACAGGA AGACTTTGTA AGGACAGTTT AAGTTCTCCT GCAAGGTTTA ATTTGTTATC 60
 ATGTAAATAT TCCAAAGCAG GNTGCCTTGT GGTTCCTGGCC AGCCTTGTGC TATGTTGATA 120
 AGATTGATTT ACTGCTTAAA ATCACTTTAC TTTATCCAAT TTTTACTGAA CTTTTTATGT 180
 AAAAAAATAA AATCAATTAA AGAACAAA 208

SEQ ID NO:4258

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05063

SEQUENCE DESCRIPTION:

GATCAGTTT CTATTTTAAT GTGTAAAAA AATAACTTGT CGTATCCCAT TTAAAGGCCA 60
 ATTTCTGTAT TCAGGCAGGC ATATGTACAT ACATGAATAA AGCCAACAAA AGTGTGCACA 120
 TGTAAA 126

SEQ ID NO:4259

LENGTH:552

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05064

SEQUENCE DESCRIPTION:

GATCGGGGTG CCCCTCAGCC TTCAGACACT CTGAGCCCCA GANGCAGCAA AGGGTGAGCC 60
 TCCTGCCTTG GTTCTACCA CCATCTGGTG GTCAATGGCG GGACTGCAGT CGGCCAGGGA 120
 CTGCGGTTGA CCTACACCTT CCTCCCCTGA GACATCAGCT GGCATGCCTC CAAGCCCTCT 180
 GCGCATGCC TCATTCTCTC CTGCCCCCTG GCTGACTTTG CATGTTGACT TGAACCCCTC 240
 TGGGGAATCT NTGTGCATGT CCACAGCCCC TGGTTATGCT CTCACAGCCA CTGCCCTNT 300
 CTNTGTTGAG GCTGAGCTGG CTGACCGACC CAATCCNCT AACCGGCCTC TGCCCGNTGA 360
 NCCGGTGGTT GAGAAGCCCG AAGTCTNAGG GGGCCAGCAA GGCCCAACC NCAAGGNAGG 420
 CAATTGCTTG CNAGACCCCA AGGGGNCGGN TNGCCAATGG GGGTGNACTT TGCCGGGCCA 480
 AAGGGGNTNN GAATTTCCGG CNCTTAAGTN GTNACCCTTC AANANNAANG GGGCAAACGG 540
 GTTNGNAAA AN 552

SEQ ID NO:4260

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05065

SEQUENCE DESCRIPTION:

GATCAGACCT TCTTGGGGTC TTCTGGCCAG AGCTTGTCAC CAGCCCCATG GCCTCTCCAG 60
 GCGTGCTCAT GCCACAACC CGCGGCCAGC CCCACGTGGT GCCGCTCAGC CTTCTCTGCC 120
 CCTCCTGGGA ATCTGTCATT CGTGGGTGCT TCAGAGTAAA ATCAATGAGT TTCTGAGAAA 180

SEQ ID NO:4261

LENGTH:553

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05066

SEQUENCE DESCRIPTION:

```
GATCAGCGTG CGGGGTGTGA AGATAGGCGT CAAGGCCGAT GACTCCCAGG AGGCCAAGGG 60
GAATAAATGT AGCCACTTTT TCCAGTTAAA AAACATCTCT TTCTGCGGAT ATCATCCAAA 120
GAACAACAAG TACTTTGGGT TCATCACCAA GCACCCCGCC GACCACCGGT TTGCCTGCCA 180
CGTCTTTGTG TCTGAAGACT CCACCAAAGC CCTGGCAGAG TCCGTGGGGA GAGCATTCCA 240
GCAGTTCTAC AAGCAGTTTG TGGAGTACAC CTGCCCCACA GAAGATATCT ACCTGGAGTA 300
GCTGTGCAGC CCCGNCCTTC TTGGGGTCCC CCCAGCCCCT NAGGGCCAAG TTGCCAGGGA 360
CAAGCTTGGC TTGCTGGACA AGGGATGTTG GCAACTTGNT TTNAGGGAGG GGGGCAACTT 420
GNCCAACCGG CCANNNGGNN CAAAGGGAAA GTTNGGGGGG NCCCGTTTGG NCCAANGGGT 480
TAGGGGGAAG GGGTTGGGGG GNAATTNGGG GNGGNGGGG AAATTTNCNA GTTTTANTTG 540
TTAATTTTTT AAA 553
```

SEQ ID NO:4262

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05068

SEQUENCE DESCRIPTION:

```
GATCTCCCGG ACCCCTGAGG TCANATGCGT GGTGGTGGAC GTGAGCCACG AAGACCCTGA 60
GGTCAAGTTC AACTGGTACG TGGACGGCGT GGAGGTGCAT AATGCCAAGA CAAAGCCGCG 120
GGAGGAGCAG TACAACAGCA CGTACCGTGN GGTCAAGCGT CTCACCGTCC TGCACCAGGA 180
CTGGCTGAAT NGCAAGGAGT ACAAGTGNA GGTCTCCAAC ANAGCCCTCC CAGCCCCCAT 240
CGNGAAAACC ATCTCCAAAG CCAAAGGGCA GCCCCGAGAA CCACAGGTGT ACACCCTGCC 300
CNCATCCCGN GACN 314
```

SEQ ID NO:4263

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05069

SEQUENCE DESCRIPTION:

```
GATCCAGGGA ACAATGACTA TAGGTGAGCA GATGCTTTAA ATTAAGGAAA GATGGAGAAG 60
AAGCCAAC TA GGAAATTAGA GAACACAGCA AGCAAAGAGA AGCAAGCGAG TCCCCTTGAG 120
TGATGCCAAT ACTTTTTTTT TTTTTTTT NGANANATTT TNTNNCCANT NTGGTN 176
```

SEQ ID NO:4264

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05070

SEQUENCE DESCRIPTION:

GATCTTTNAG GAAAGACGGA TTGCNTTAGA AATAGACAGT ATATTTTNG TCACAAGAGC 60
 CCAGCAGGGC CTCAAAGTTG GGGCAGGCTG GCTGGCCCGT NATGTTCCCTC AAAAGCACCC 120
 TTGACGTCAA GTNTCCTTCC CCTTTCCCA CTCCCTGGCT CTCAGAAGGT ATTCCTTTNG 180
 TNTACAGTGT GTAAAGTGTA AATCCTTTTC NTTTATAAAC TTTAGAGTAG CATGAGAGAA 240
 TTGTATCATT TGAACAATA GGCTTCAGCA TATTTNTAGC AATCCATGTT AGTTTGNAC 300
 TTTCTGTG CCACAACCCC TGTTTTAAT ACTGTACCTT TANTTAAATT TCNNGGTTNN 360
 TAGTTTTTTG CAACAGGTTT TTTCCCAA 389

SEQ ID NO:4265

LENGTH:436

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05071

SEQUENCE DESCRIPTION:

GATCACCATG AAAGAAGAAT AGTTTTTGT CCCAGAGAC ATTCAATTAG TTGATATAAT 60
 CCTACCAGAA GGAAAGCACT AAGAAACACT CGTTTGTGT TTTAAAGGC AACAGACTTA 120
 AAGTTGCTCT CAGCCAAGGA AAAATGATAC TGCAACTTTA AAATTTAAAG TATCTTGCAC 180
 TGATAAATAT ATTTAANANT TGTATGTTTA TAAAGTTATT AATTGTNNN GNCNGTGTTA 240
 CAAAATGTT AGTTTATATT GTTTTAGATT GTTTGTAAAT TTTAAAGGT GTAAATAAC 300
 ATATTTNTCC TTTATGGNNA TCTATAAAC TTTCTGGTAG TAAATGTT TCATTTTAC 360
 TGGGTATATT ATTTGCTTCC ATGNTTTTGT TNCCNTCCA TAAGGNTTN NTGCCAGNTT 420
 TTTTTTTNN CAGGN 436

SEQ ID NO:4266

LENGTH:533

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05073

SEQUENCE DESCRIPTION:

GATCTGTCCC CATCCGAAGA GGCTTTGTGA ACTGCCTGCT GAATGGAAGG AAAGCAACTT 60
 TAAAACATTT AGAGTTTTGC TGAGTATAGC CAAATGCCTG TNCTGAACT TATAGGAAAT 120
 TGGAATTTTG TTTAAATTT TACACTTTAA GGTAGCAAAT GTCAATTATT NGNCCGAGCA 180
 TATTGTGAAG AATTAACTA AAATTAATAC GTACAGTTTT CTCTAATTAG GTGACTGTTT 240
 ATAATGGGTA TATTGGAAT TTAGAAGAAA TAATTTGTGA GNACTTGTGG CCCTTATGTT 300
 TAACAGATTA ATTCAGCATT GCGTATTTN CTTGTCCCA ATACAAGGAT GCCAAAGGAG 360
 GGAAACAGGA AAAATTGCCG TCCCATTTT AAAAATTTA GGGGTTTGGN TGGTTTTAAA 420
 CCCNTAAATT TGTTCCCAN GGANCNTTT TTTGGGACC TTNCTAAATT TTTGGGGN 480
 CATTTTNAAN TTAAAGGNAT TGNNGGGNC NAAGNNGTN TTTGANTTN TGN 533

SEQ ID NO:4267

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05074

SEQUENCE DESCRIPTION:

GATCAAGGAA GAGATGGAGG CTTTCCCCGA AAAGTTCTAG CTGAGTGGCA GAAGTGAGAA 60
 TTTGTAAACT TATGTACAAT GTACGTGTAA ATAAATGGAT TGAATTCAG TTTGTCATCA 120
 GAAA 124

SEQ ID NO:4268

LENGTH:451

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05075

SEQUENCE DESCRIPTION:

GATCTGGGAC AGATTTCACT CTCACCATCA CCAACCTGCA GCCTGAAGAT TTTCCAACTN 60
 ATTACTGCCA ACAGTATGAT AGTTACCCGC TCACTTTCGG CGGAGGGACC AAGGTGGAGG 120
 TCAATCGANC TGTGGCTGCA CCATCTNTNT TCATCTTCCC GCCATCTGAT GAGCAGTTGA 180
 AATCTGGAAC TGCCTCTNTT GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG 240
 TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT NTCACAGAGC 300
 AGGACAGCAA GGACAGCACC TACAGNCTCA GCAGCACCCCT TGACGNTNAG CAAAGCAGNC 360
 TACGNGAAAC ACANAGTNTA CGGCTGCGAA GTTNACCCCN TCAAGGGCCT TGAGCTTNGN 420
 CCNGTCACAA AGGNGNTTN AAACAGGNGG N 451

SEQ ID NO:4269

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05076

SEQUENCE DESCRIPTION:

GATCTAGAAA CTGAGTTGTG GAGCTGACTC TAATCAAATG TGATGATTGG AATTAGACCA 60
 TTTGGCCTTT GANCTTTCAT AGGAAAAATG ACCCAACANT TCTNAGCATG AGCTACCTCA 120
 TCTCTAGAAG CTGGGATGGA CTTACTATTC TNGTNTATAT NGNAGATACT GAAAGGTGCT 180
 ATGCTTCTNT NATTATN 197

SEQ ID NO:4270

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05077

SEQUENCE DESCRIPTION:

GATCCCATCC CCTTGTCTGA ACTGGAGCCA TGGGCACAAA GGGCCCAGAT TAAAGTCTTT 60
 ATCCTCAAA 69

SEQ ID NO:4271

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05079

SEQUENCE DESCRIPTION:

GATCTTGCCT CCCATCAGCC ATCTTTCTCC CAATAAATTT TTGTTTTGTG CAAA

54

SEQ ID NO:4272

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05080

SEQUENCE DESCRIPTION:

GATCTAACCA ATTNAAATAT GANTTCATAC TCNAAAGTAT CAACAAAAAA ATGAAAAGAA 60

ATAGCTGGTT TGGNTGTAAG AAATGGTGTA ATTAATGGNT TTN

103

SEQ ID NO:4273

LENGTH:449

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05081

SEQUENCE DESCRIPTION:

GATCACTGCT GGCCTACTCT GGTTACGGGG ACACTGACGC CCGGGTCACC GCTGCCATAG 60

CCAGTAACAT CTGGGCCGCC TACGACCGGA ACGGGAACCA AGCGTTAAT GAAGACAATC 120

TCAAATTCAT CCTCATGGAC TGCATGGAGG GCCGTGTAGC CATCACCCGA GTGGCCAACC 180

TTCTGCTGTG TATGTATGCC AAGGAGACCG TGGGCTTTNN NNTNCTCAAG GCCAAGGCC 240

AGGCTTTGGT GCAGTACCTG GAGGAGCCCC TNACCCAAGT GCGGGCATCT TAACGGCATT 300

GGTGGAAGCT GGGGGTCAGA AAAGAGAAAT GACCCATTG NGAGGGGCTG GGGGNCCTCC 360

TAGGAAGAAC CTTTNTTAGG ACAATGGGGG GNAAGGGATG GGACTTTTNN TTTTTTCCC 420

AAGNATTAAT ACTTNAACCT CCCTGTAAA

449

SEQ ID NO:4274

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05082

SEQUENCE DESCRIPTION:

GATCTNCATA ANCAGGGTTC CTGAGCTCAC TGAAAAGACT ATTGTCCCTT AGGAAAAGCA 60

TTTCCTGTGT NTCGTNAGCA TCTGGCTCCA GGACAGACCT TCAACTTCCA AATTGGATAC 120

TGCTGCCAAG AAGTTGCTCT GAAGTNAGTT TCTATCATNC TNCTCTTTGA TTCAAAGCAC 180

TGTTTCTCTC ACTGGGCCTC CAACCATGTC CCCTTCTCCT NAGCACCACA AATAATCAAA 240

ACCCAAA

247

SEQ ID NO:4275

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05083

SEQUENCE DESCRIPTION:

GATCATTTC CAAGATTGGT TTCCCTTGAG TTTTGCTAA AACAAATCTT AGTAGTTTGG 60
 CCCGTTTAAA ACAACTCACA ATCGTAAATG CTACTATTCC TAAGATATCT NACCTTTTNA 120
 TTTCAGTTTA GCCATGTATT GTATGAGTGT ATTAGTCTAA GCAGTGAGAA TCTTNTCTAT 180
 GCCTCTATTC CAGCAAAAAG TAGAAGTATC AAATAAAANG GGCAACTTTT AAAATATTAA 240
 GCCTGAAGAC TTCTAAAANG ACANGANACA TGGCCTAANT ANCCAACATA GGATTTACAT 300
 AGTANGTTTC ACACTACCTT ATTACCAAAA GCAAACCACC TCTTACTTTT NNNCTACATT 360
 TATCCATGTA TATCTNTNGT ATGCTGGTCT TTTNCTTTTT NGCCAAANTC NANCATTTTT 420
 TGNN 424

SEQ ID NO:4276

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05085

SEQUENCE DESCRIPTION:

GATCTAAAC TTCTGTTGCT TTTGCCATT CAAAACTTTG TCTTGCCAG AAAAGTGTG 60
 GTAACATAA AGAAAATTAT ATATGANCAC GGCAGTTTGC ACTGTGTTG AGTAGAACGT 120
 GTAAATGAAT TGTNCCCACC TTTGGTTTGC CAGTAAGTGA CTGGATTCTT GGCACATTA 180
 TGTTACCAA AGTAGAACAA GAAGATATTA TTNCTATTTA TCAAGCAAAA GGAATTTTAA 240
 GATTTTNTTT TTNCNTAAA ACCAANTTGG GATTTNNNN TTTNNTTTN TTTGGGGGAA 300
 AAGGNTTN 308

SEQ ID NO:4277

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05086

SEQUENCE DESCRIPTION:

GATCGAGTCC GCCATGGAGA GGGACCGCTA CATGAGCCCC ATGGAGGCCC AGGAGTTTGG 60
 CATCTTAGAC AAGGTTCTGG TCCACCCTCC CCAGGACGGT GAGGATGAGC CCACGCTGGT 120
 GCAGAAGGAG CCTGTAGAAG CAGCGCCGGC AGCAGAACCT GTCCCAGCTA GCACCTGAGA 180
 GCTGGGCCTC CTCTCCAGAN TCATGTGGAG GGGCCAGAGG CTGCCAGACC CCCAGCTGGG 240
 CCCTGCTCAC CCCTTGTGTC TGGGCTTGA GGGGCCTNTT GAGGAACCTT TAATTTGCAG 300
 GGGTGCCCGN TATGGACGGG GCATTNCAGC TGAGACACTG TGGATTTTAA ATTAAATCTT 360
 TTGTGGTCTT TAAA 374

SEQ ID NO:4278

LENGTH:510

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05087

SEQUENCE DESCRIPTION:

GATCTGTGCT TTCCAGCTCA CCCCCACAC TCACTCCTGA GACCCCTGGC CTCCGGCGTC 60
 ACNTCCAGCN TCTGTTCCCC TAGTAAGTGC CTTCCATGTC GGCCTCTAAC CCCAGGCCCC 120
 GAGGACCCAG ACCCAGTGGG GAGGCGGACG TTCCAGCCGG CATGGNTGGG AACTGCAGAC 180

CTGTCCTCCT GGTGGGTCCA GGGGCCCTC CAGCTTGTGG AGCCCCACAN TGGGGTGCCG 240
 CCTGCCCGTT TTTTCCCAT GGAGCCCAG CCCCCTTGG GCCCAGGGAC ACCAGCCAGG 300
 CTCTGTGCTG ACCCTCCTGT TGCACCCAGN CCTGGTNTCA GCAGCGACCA CCCCTTGCNT 360
 TCACCCTTTG GAGCTTTTGC AATGTTTCCA NTAAANCCCN GGGNTGGGTT NGGNAAGGTT 420
 GGGAGGTTGT TAAGGTTGTT TNGGTGNNT TTTTGAAAGG GGNAGGATNA ATTAACCTTG 480
 ANCCNNTGGG GCGGNGNGNC TTTTNGGNTN 510

SEQ ID NO:4279

LENGTH:466

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05088

SEQUENCE DESCRIPTION:

GATCTAGCTT GGAGAGCTTG TGAATCTTAG GAGAGCTAGG CATAGAATGA CTAAAGTTTG 60
 TCACCGCATG AGATAAATA AATGAAAAGC CACTTCTGGA GGAATGAGG CAGTCTGCCT 120
 TTNTGGAGA GATACATATT GTTGAACAGC TCTGGGCAGT TGATTGTTTG CCTGGGAGAG 180
 CTAACCATGT TTAATCTACA CTTGACCTGT GATGGTCTGT ATTGATTGTN TCACACGCTT 240
 AGCTTTCTAA GGTAACCCAG GTCATCGTCC TCAGTCCCTG CCTGCAACTA GGTGCCAAC 300
 TGGCCCTTGA TTTCCACCC AACTTGTTC GTTTGCCCTC AATCCTGGG CCTCACTNAT 360
 TTCCCCAAAA NGATATGGTT TGGTACCACC TGATGTTNC CTGTTGCATG GTTAAACCTG 420
 ACTTTTGGG GAAACTNAAA ATANAACANT TTTTCAAAAC GGGAAA 466

SEQ ID NO:4280

LENGTH:470

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05089

SEQUENCE DESCRIPTION:

GATCGAGCCA CTGCTGAAGA ATGTCTAAAG CACCCCTGGT TGACACAGAG CAGTATTCAA 60
 GAGCCTTCTT TCAGGATGGA AAAGGCACTA GANGAAGCAA ATGCCCTCCA AGAAGGTCAT 120
 TCTNTGCCTG ANATTAATTC GGATACCGAC AAATCAGAAA CCGAGGAATC CATTGTAACC 180
 GAAGAGTTAA TTGTAGTTAC TTCATATACT CTAGGACAAT GCAGACAGTC TGAAAANGAG 240
 AAAATGGNGC AAAAGGCCAT TTCAAACGA TTAAATTTG AGGAACCTTT GCTACANGAN 300
 ATTCCAGNG ATTTTATCTA CTGAGCAATA TTTCCCTTTN GAACCTCAAG ATTTCTNCAC 360
 TGNANAATTN TTAATNTTTN TTTTTTGGG GCCCTCTGGG CCAAATTGGN GNCATGTTCC 420
 TTTGNAGGTG GGTAAACCA GTTNTCACTT TNCACCAGTC CANNTNTTTN 470

SEQ ID NO:4281

LENGTH:476

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05090

SEQUENCE DESCRIPTION:

GATCTACAGT CACCATATAT ATCAGCAGGA CCTAAGGNAA AAGATTTTGG ATGTTGGGAA 60
 AAGGTTAGAT GTGACTGGAT TTTGCATGAC AGGNAAGCCT GGTATAATCT GTGTGGAGGG 120

TTTCAAAGAG CACTGTGAGG NGTCTGGCA CACAATTAGG TACCCCAATT GGAAGCACAT 180
 TTCCTGTAAG CATGCTGAAA GCGTGGAGAC AGAAGGAAAT GGTGAGGACC TGCGCCTTTN 240
 CCATTCTTTT GAAGAGTTAC TCCTTGAGGC TCATGGTGAC TATGGATTAN GGAATGACTA 300
 TCACATGANT CTGGGCCAAT TCTTAGAATT TNTCAAGNTG CACAAAATTT NAGGCATGTT 360
 TTTTCCNGT TACTATTTTG GGTNTTNTNA AGCAAAAANT TTCAGNCTTC NTAAAAAGCG 420
 GNTTAAAGGG GGNCTATTG NCCTGTNAAT TTTCCACTNA GGNCAGGTNT TTCTTN 476

SEQ ID NO:4282

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05092

SEQUENCE DESCRIPTION:

GATCTGAATT GTNCGAAAAG CAGCCAGTGC CTAANTTGTA GCTCCACTTA TGCCAACTGT 60
 ATATATACCT CTCGTAGCA TAGCAAGTNA TTTANTATTT TNAAGATG GCTAAAATCC 120
 TTTTAATGAA CAGCACTAAA GTTATATGTA TTAGAGGAGA ATTATTGANT GANATGGAGA 180
 AAGAGTTCTG AAATTANTAT TTNCATTGG GCTTTTTTAC AGATAATATT ATATNNCTAA 240
 GTGACCAGAC GAAAGAGAAG GGNGTAGAAA AGGNTGN 277

SEQ ID NO:4283

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05094

SEQUENCE DESCRIPTION:

GATCCCCAGA CCTCACTTGC CTCTGCCTCC ATCTTGGCCC TGATTCAACC CTAAGATAAT 60
 AGCACAACAA AATTCTNCAT AAAGATATTT TAATCACCT GTNCCGTGCT ATATGGAGGA 120
 GGCCAAGTCC ATTTAGTGAC ATTNCTNCCC ATAATGTGAG TGGGGAGGAT TGTGGGAGG 180
 AGGGGCTTTG GGTTCCTGTG TTTGTGCATA TGAAGGGAGA TGGGGGTTAG GTGGAGGAGG 240
 AGAGCAGCGT GGTTAGCTAA GGTTATTGCT TTTTGTGGCA AATCTAATTA AATGACAGGA 300
 ATCTCTTCAC GAAA 314

SEQ ID NO:4284

LENGTH:489

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05095

SEQUENCE DESCRIPTION:

GATCTTCATG GAGCTGAATG ACGCCTGGTC GGAGTTTGAG AACCAGGGCT CNCGGCCCCT 60
 CTTCTGAGGC CGCAGTGGTG GTGGCTGCGC ACACAGCTCC ACAGGTTGGG AGCCGTCGTG 120
 GGACCTGGGT CCCCACCGTN AGGACCCCGT GGGCGACAGA GGTGTGGCCA GGGTGGGGCT 180
 CCGAGCCCCG GGTACCGGCC CGCCAGCGT TCCAGGCACA TGAAGAGAAA GCATTCCAAA 240
 GCCTCTNATT GTTGTTCCT TTTTNTCCTC CCGAAGAACA GCTGATTCAT GTCCTCCCG 300
 CAATTNTNAC GTCTGTAATT TATTTGGTGT TTCGGGCGTN GTCTCTTGA GCCCCGGCAC 360
 GTTNGTGGGG CCCACGGTTG CTTGGCGGTT CAATGGGGCC CTTGGTGTG TGCACCGGAA 420

CTTTTGTAAG TCAAGTNCCG TGGGTTGGTN TTGTTACAAG AATTNAAAAC TAATTTTCC 480
CGNTTGAAA 489

SEQ ID NO:4285

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05096

SEQUENCE DESCRIPTION:

GATCATATTT CCCCTTGGAC ACTTGGTTAG ACGCCTTCCA GGTCAGGATG CACATTTCTG 60
GATTGTGGTT CCATGCAGCC TTGGGGCATT ATGGGTTCTT CCCCCACTTC CCCTCCAAGA 120
CCCTGTGTTT ATTTGGTGTT CCTGGAAGCA GGTGCTACAA CATGTNAGGC ATTCGGGGAA 180
GCTGCACATG TGCCACACAG TGAAGTGGCC CCAGACGCAT AGACTGAGGT ATAAAGACAA 240
GTATGAATAT TACTCTCAAA ATCTTTGTAT AAATAAATAT TTTTGGGGCA AA 292

SEQ ID NO:4286

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05099

SEQUENCE DESCRIPTION:

GATCCCAGTG GAGGCTGTAA CCCACCTGCC CCCGCACCAC CCCCNTGAC CCCTGTTACC 60
GCATTTGTGT GTATTAATGC TGAAGAATTA AATGTTTAAA GAGTTTAAAT TTTGAAGGCG 120
TTTGCTATAT ACAGTTGTCC TGCATTATTA TAAAGAGTTT TCAGGAAGTT AAA 173

SEQ ID NO:4287

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05100

SEQUENCE DESCRIPTION:

GATCAGAAAT GTGAAGCACA AATGCTGCTT CTCCCCCTCC TGTCCCATG TCAGAGATGG 60
AGAAGAAAGC ACAGTGAGCT GTTCACCAGT CCAGCGGTGA CCTCGGAGTC CTTTGTAACA 120
GTGTTTCCAA TANTTCTGTC CAATAAAACA GAATTTNNGT TAGAACCTAT CTGCTGTCCC 180
TCAACTAGTG TCTGATAGCT GAGAATGTAA TTCGTTNTN TGTCTATTAG AAAATTAGGC 240
AGGCACCACA GACAGTAGCA ACATAAAGGA ACCTGCTTAG AAGNGGTTTT NATGGGNNNN 300
NNCNCNN 307

SEQ ID NO:4288

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05102

SEQUENCE DESCRIPTION:

GATCCTTAAA TCTCCATTCT GTTTGTGGTT GCCCCCTCAA CCTCCCCTAC ACCCTTCCTA 60

TTCTTTTCA TTCTTCTGC AGTTCTGGGA GTAAAGCTCC CAGCATATTT AGATAATAGG 120
 GCAGGGGAAG CACCCTCTTT CTTTCTAGAC TGGATTATGC TCACATGCTC CCTTGCCCTG 180
 ACATTTTGT AAATNCTGTG CCCTTTGCTG TAGCTACACT TCAGATTAAA GTAGGAGAAA 240
 GAAA 244

SEQ ID NO:4289

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05103

SEQUENCE DESCRIPTION:

GATCAAAGTT GGGGGGGCT TGGCTGTGCC CTCAGATTCC GCACCAATAA AGCCTTCAA 60
 CTCCTAAA 69

SEQ ID NO:4290

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05104

SEQUENCE DESCRIPTION:

GATCTTTNAT CCTTTGTGC AAAAGTGTGG ACACTTTNA NAGCTTGGCA GATTNAACT 60
 CCAGAAGCAC TTTATGAAAT GGTACACTGA CTAATCCAGA AGACATTTC AACAGTTTGC 120
 CAGTGGTTCC TCACTACACT GGTACTGAAA GTNTAATTNN TTAGAGCCAA AAACTGGAG 180
 AAACAAATAT CCTGCCACCT CTAACAAGTA CATGAGTACT TGATTTTAAT GGTATAAGGC 240
 AGAGCCTTN NTTCTCTTC TTGATAGATG AGGCCATGGT GTAAATGGAA GTTCAGAGA 300
 GGACAAAATA AAACGGAATT CCATTTTTT NTCAGTAA A 341

SEQ ID NO:4291

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05105

SEQUENCE DESCRIPTION:

GATCTTAGAG TCACTTTGGA ATAAGNTCTT ACATAAATAC CCCCAGCCTT TTGAGAACGG 60
 GGCTTGTTAA AGGACGCGTA TGTAGGGCCC GTACCTACTG GCAGTTGGGT TCAGGGAAAT 120
 GGGATTGACT TGGCCTTCAG GCTCCTTGG TCATAATTTT AAAATATGGG AGTAGAAAAC 180
 AACANAGNNT GGAATGGACT CTTAAACAA TGAAAGNGCA TTTATCGTTT GTCCCTTGAA 240
 TGTAGAATTT TTTTTGATT TCATAATTCT NCTGGTAAAT NTGNCAGTTA AAATGGTGCA 300
 TTATGTATAT ATTANTATAA TTTAGANATT CCATTTTATA NTTNTCCTA TTCCAGGGTN 360
 GCATAANGCA TTTNNANTT TNGGGGTTTT GGNTN 395

SEQ ID NO:4292

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05106

SEQUENCE DESCRIPTION:

GATCATATTT TGCAGTTTGA GTAAAAGGGA AATATTGTGA TACATTTNTT AAATATACTT 60
 CCCCCATGAN GTGAAAAGGT TAATTTTNCT GANTGTTTGA AGTTGAAGTT ACTTCATGGA 120
 TGTCATACCC ATGANGTGCA TTTGGNTGAG ATAGCNGAAA TTTTTTTTAA AAAAGTTTAA 180
 GTACCAAAGG TAGTCTAGTC TAGAACCATA AGTTAATACG TTTGGGCTTT NNTAATTTGT 240
 ACTGTAAACAT CCTTATACTT TCTATTTNAA GTATATCTGT TTCTTAAGTA AACAACTTAG 300
 ATATTTTCCA CACCTTTTTT TTTTTTNCC CNTGNNGGGT CCNGGGTNN 349

SEQ ID NO:4293

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05107

SEQUENCE DESCRIPTION:

GATCTGCCAT TTATTAGCTG TGGGATTTTG GGCAAATTTN TTGACTTTCT GTGCTTCANT 60
 TTTCTTAGCT GTAAAATTGG AAGAGTTGTT ATGAAAATNC ACTGAAAGTA TATTGTATA 120
 CATCATAGGA TAGTGTAAGA ATATAGTATG GCTTTGAGAA ATGTTCAATNA TTATNACTCC 180
 CAGAGGAGTT TTAGGTATTA AGTGATGCCA AATATAATTT NTNAATTGTA TAATAAAAAT 240
 CTATATNCTT ACTGAAA 257

SEQ ID NO:4294

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05108

SEQUENCE DESCRIPTION:

GATCACCATC CCAGTAACCT TCNAGTCGCG GGCCCAGCTT GGGGGCCCAG AAGCTGCAAA 60
 ATCCGATGAG ACTGCCGCCA AGTAAAGCCT TAGCCCGGAT GCCCACCCTT GCTGCCGCCA 120
 CTGGCTGTGC CTCNCCCGTN ACCTGTGTGT TCTTTNATA CATTTATCTT CTGTTTTNT 180
 CAAATAAAGT TCAAAGCAAC CACCTGNANA AA 212

SEQ ID NO:4295

LENGTH:559

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05109

SEQUENCE DESCRIPTION:

GATCCAGTGG GGATGTTGTN ATGACTCAGT CTCCACTCTC CCTGCCCCGTN ACCCTTGGAC 60
 AGCCGGCCTC CATCTCCTGC AGGTCTAGNC AAAGCCTCCT ATACAGGGAT GGAAACACGT 120
 ACTTGANTTG GTATCAGCAG AGGCCAGGCC AACCTCCAAG GCGCCTCATT TATGAGGTTT 180
 CTAAGCGGGA CTCTGGCGCC CCAGACAGAT TCAGCGGCAG TGGGTCAGCC ACTGATTTC 240
 CACTGACANT TAGCAGGGTG GAGGTTTGAC GATGTTGGGA TTTACTATTT GCATGCAAGG 300
 AACACACTGG NCTCAGACGT TCGGCCAAGG GGACCAAAGG TGGNAAATTC GAACGAACCT 360
 GTGGCCTTGC ACCNATCTTT TTTTCATCTT TNCCGNCATC TTGGTTGNGC AAGTTTGNA 420

ATNTTGGGAA CCTNGCCTCC TTTTGGTGN TGCCTTGNC TGAATAACT TNNTTATCC 480
 CAAGAGGAGG GNCAAANTTC AAGTTGGGAA GGTGGTTTA ACCGGCNTTC CAATTCNGGG 540
 GNAANTCCCN TGGNGGGNN 559

SEQ ID NO:4296

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05110

SEQUENCE DESCRIPTION:

GATCTCTATG TATGTGTGTA TATAATATA GTTTTTATC TATATATAAA 50

SEQ ID NO:4297

LENGTH:548

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05111

SEQUENCE DESCRIPTION:

GATCAAACGA ACTGTGGCTG CACCATCTTT NTTTCATCTC CCGCCATCTG ATGAGCAGTT 60
 GANATNTGGA ACTGCCTCTT TTGTNTGCCT GCTGAATAAN TTCTATCCCA GAGAGGCCAA 120
 AGTACAGTGG AAGGTGGATA ACGCCCTCCA ATCGGGTAAC TCCCAGGAGA GTGTCACAGA 180
 GCAGGACAGC AAGGACAGCA CCTACAGCNT NAGCAGCACC CTGACGCTGA GCAAAGCAGA 240
 CTACGAGANA CACAAAGTNT ACGNCTGCNA AGTCACCCAT CAGGGCCTGA GCTCGCCCGT 300
 CACAAAGAGC TTCAACAGGG GAGAGTTTAA AGANGGGAGA AGTGCCCCCN ANCTGGNTCC 360
 TCAGTTCAG CNTGACCCTC TCCNATCCTT TGGCCTGTGA CCCTTTTTTT TCCACAGGGG 420
 GNCCTACCCN TTTTGGNGGT CCTCCAGCTC ATTTTTTTAA CCTTAACCCC GNTTNNTTCT 480
 TCCTTTGGGG TTAAATTAT TGNTTAATTT TTGGGGGNGG ATTGNTTTAA ATTAAAGGGA 540
 ATNTTTTN 548

SEQ ID NO:4298

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05112

SEQUENCE DESCRIPTION:

GATCAGCGCC TGAGAAGTCG TCGGGCGATG TCCCGCGGCC GTGTCCCTCT CCAAGCNCCG 60
 CCCCTGGGTG GGCTCGGTGG AGCAGACCCC GCGCAAGAGG CTGCGGTGAG CCAATTTAGA 120
 GCCCAAAGAG CCCCAGGGA ACCTGCCGGG GCAGCGGACG TTGGAAGGGC GCTGGGCCTC 180
 GGNTGGNACC GTTCATGTAG CAGCAACCGG CGGCGNNTGC CCAGNAGCAG CGTTCGGTTT 240
 TTTTTTAA TTTNAAAAC TGTGCAATGT ATTAATAACG TTTTTTTATA TCTAAATGGT 300
 ATTCTGCAGC AGANGNTACA CTGGGTCCCA AAGGTGTAAA AGCTTTTTAA GAGTCATTGT 360
 ATTATAAAN TNNNTTTAAT CTNTTGGTTG AAATCTTNA GTGNNANAGT ATTNN 415

SEQ ID NO:4299

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05113

SEQUENCE DESCRIPTION:

GATCTAATCT NAGATGTAAA CATTCAAATT NACCCTGTAG ACTNGGGTGA CAAGTTTCGN 60
TTGGTCATAG CTAGTACCTT GTATGANGAT GGTACCCTGG ATGATGGTGA ATACAACCCC 120
ACTNATGATA GGCCTTCCAG GGCTGACCAG TTTNAN 156

SEQ ID NO:4300

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05114

SEQUENCE DESCRIPTION:

GATCTTACTT TCATCCAGTC TAATAGGTTT GGAGATTAAA CCTTNTCTCA ACTTGTGCTG 60
TTTATATAGC CAAGCTTCCG TCAATAAGGC TTCATTGTGA CTTTAACAAA CATNATCTTC 120
CCACATACCA GGAATATTG GACATTTATT TTACATGGGA AAAATTATTT GGAATAATAA 180
AGCAGGNACT TTNCCTGANG TTGCAATTTA TACTGTATGG CTNCTNNTTC ATGTTTCATC 240
TAGGTTTTAN GAAGTGAAGT ATANGTAAAT NTNGGTTTCGT TAAATNGTGA TGGCGCTGGN 300
NATTACATGN 310

SEQ ID NO:4301

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05115

SEQUENCE DESCRIPTION:

GATCACTCAA GCACAGGATT TTAAGACCAG CCTGGGCAAC ACAGTGAGTG AGACCCTGTC 60
TCTACAAAAA AATTAAAAAT TAGCTGGATA CTGTGGTGTG TGCCTGTAGT CCCAGGTACT 120
TGGGGCATTG AGGCAAGAGG TTACTTTNAG CTCGGGTGTT TGAGGCTATG ATGAACTATG 180
ATTGTAGTGC TGTACTCCAG CCTGTGCAAA ANAGTAAAC CTTGTCTCAA A 231

SEQ ID NO:4302

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05116

SEQUENCE DESCRIPTION:

GATCGGGCCA CTGCACTCCA GCATGGGTGA AAAAGTGAGA CCCTACCTCA AA 52

SEQ ID NO:4303

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05117

SEQUENCE DESCRIPTION:

GATCACCAAC AGCCGTCCTC CCTGCGTCAT CCTGTGACTG CACAGGACTC TGGGTTCCCTG 60
 CTCTGTTCTG GGGTCCAAAC CTTGGTCTCC CTTTGGTCCT GCTGGGAGNT CCCCTGCCT 120
 CTTTCCCCTA CTTAGCTCCT TAGCAAAGAG ACCCTGGCCT CCACTTTGCC CTTTGGGTAC 180
 AAAGAAGGAA TAGAAGATTC CGTGGCCTTG GGGGCAGGAG AGAGACACTC TCCATGAACA 240
 CTCTCCAGC CACCTCATAC CCCCTTCCA AGGGTAAGTG CCCACGAAAG CCCAGGTCCA 300
 CTCTTNGNCT CGGGTAATAC CTGTCTNGNT GCCACAAGA TTTTATTNA TTCTCCCCTT 360
 AACCCNAGGG CAATGTCANN NTATTGGCA GTAAAAGTG GGGTTACAAA ANCACTAAA 419

SEQ ID NO:4304

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05118

SEQUENCE DESCRIPTION:

GATCTCCCTA GGGCCCCACC TGGACCATTT TCCCTCCGTT TTATTTTGT AATTAAATTC 60
 TTTCCAAATT GGAAA 75

SEQ ID NO:4305

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05119

SEQUENCE DESCRIPTION:

GATCTCAGTT CACTGCAACC TCCGCCTCCN AGGTTCAAGT GATTCCNTTG TCCCAGCTAC 60
 TTGGGAGGCT GAGGCAGGAG AATCACATGA GCCTGGGAGA TGGAGGTTGC AGTGAGCCGA 120
 GATTGCACCA CTGCACTCCA GCCTGGGCAA CGAGCAAACC TGCNNCTCAA A 171

SEQ ID NO:4306

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05120

SEQUENCE DESCRIPTION:

GATCCCTGGT GTGTTGTGTG GGCCTCTTTA ACGTTTGCCA CTGAGCCTTA ACCTCACTGT 60
 ACTTCACTGT ACTTCACACG CATTGGTGTT AACATTTTAA TCTTAGAAGA CCCTGACCCA 120
 CTGAGGGTTT GTTGTGAGAA TTGCTGAAGC CACGTAGAAG CACCTTGAAA TCTGTAAAC 180
 CACAAGAAAG TACTTTATAA AAGGTATCCT TATTGAAAGT GGATAAATCT TGTAACCTGA 240
 AAAGTTGTGA TTTAGAAGAC AGGATTGTTT TTGAACATTA GGAATTAAAG GCTATATCTG 300
 GTCCTTAAA 309

SEQ ID NO:4307

LENGTH:587

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05121

SEQUENCE DESCRIPTION:

GATCTAAAA CTCATCTTTG GGGTAAAGAG TTAAGTGTCC AAAGGTTGTC ACAGTTCATG 60
 AGGTCAGAGG GAGCTAGCCT GGCACCTGGA CTCTGCCCAT CCACAGCTGA CAGATTCCAA 120
 CAGAAGTGTA TTAAATTCT CCAGTAGACA ATGCTGGGTA AGGGAGGGGN TAGNNCTGGG 180
 TTATTAAGAT ACAGGCTGCT GTATTTTACA TTGGTTGTGG GGGAAGGGGA GCCTGGAGAA 240
 AACAAAGTCA CTATTCCCTT TTTTGAACA GGAAAAAAA TTATTTTTTG TTCAGTAAAA 300
 ATGGGTAGGN GAATCCAAT GTCCCTAGCC ACAAGGNCC AGTTTCCACT GAGGAAGTGA 360
 ACCAGTGGG AACTCAAAT TTCCAGGNA CATTGGGGG GAGGGGGAA ANTTGGGCTT 420
 TTCNCTTAA TTTGGCAGN NTTTNCAGT TGGGNCNGG GNGGGGGCT CCTGTTTTT 480
 TTTTGGGG NTGTGNTTA NTGNTNNTAT NGTACCGNT TATTTTGGC CCCGGGGTTT 540
 TTCTTGGNT TTNTAAGG TTNCCCCAA NTTGGGTNA AACNTN 587

SEQ ID NO:4308

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05122

SEQUENCE DESCRIPTION:

GATCCCCCA TCTCTNCAGC ACTCTCTGC TCCTCTCCCT TTTCATTCC TTACTTTGTA 60
 TCTTNTCAGA TTAGAACA TTTTNTTGT CATGACAAAG GACTCTCAA A 111

SEQ ID NO:4309

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05123

SEQUENCE DESCRIPTION:

GATCTNAACT CCTTGGCTTC TTTACTTAGT TCAAGCCCCA GCCTAGGAAA GCCAGTTACA 60
 TAAAAGTTGG CTCAGGAGTC TTAGAGCTTT ACCTAAATAT GAGCCCAGAA AACGGAGGAT 120
 GGGGGTGGG CGCCTTCCTG GAGGTGACAC TTGATGGGG TGTGTTCTGG TTACTGTTCT 180
 AAGGCTGTGC CATCAGCTCC TTCCTCCCT GTTCATTCTG CATTCTCTAG TCAGTTGGCT 240
 AAGAAGTGAC TCTTGCACT AAAAAAATA AGAAATTCAC TTCCCTCTA GGAGGTGATG 300
 ATAGGGTTTT N 311

SEQ ID NO:4310

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05124

SEQUENCE DESCRIPTION:

GATCAGAGTT TCTGTGAAT TCTGTTGTT AAATCAAATT AGCTGGTCTC TGAATTAAGG 60
 GGGAGACGAC CTTCTCTAAG ANGAACAGGG TTCGCCCCAG TCCTCCTGCC TGGAGACAGT 120
 TGATGTGTCA TGCAGAGCTC TTACTTCTCC AGCAACACTC TTCAGTNCAT AATAAGCTTA 180
 ACTGATAAAC AGAATATNNA GAAAGGTGAG ACTTGGGCTT ACCATTGGGT TTAAATCATA 240

GGGACCTAGG GCGAGGGTTC AGGGCTTCTN TGGAGCAGAT ATTGTCAAGT TCATGGCCTT 300
 AGGTAGCATG TATCTGGTCT TAACTCTGAT TGTAGCAAAA GTTCTGAGAG NAGCTGAGCC 360
 CTGTTN 366

SEQ ID NO:4311

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05127

SEQUENCE DESCRIPTION:

GATCACGCTG ACCTGGCAGC GGGATGGGGA GGAACAGACC CNGGACACAG AGCTTGTGGA 60
 GACCAGGCCT GCAGGGGATG GAACCTTCCA GAAGTGGGCC GCTGTGGTGG TGCCTTCTGG 120
 AGAGGAACAG AGATACACAT GCCATGGTGC AGCACGAGGG GCTNCCCCAG CCCNTNATCC 180
 TGAGATGGGA GCAGTCTCCC CAGCCCACCA TCCCCATCGT GGGCATCGTT GCTGGCCTTN 240

SEQ ID NO:4312

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05128

SEQUENCE DESCRIPTION:

GATCTTTTCT CCATCATGTA CTTAGTATTT CCCATTAACC TACACACTGA TTTTNTGCT 60
 ACTCCTTGTA GAAACAAAAT TNTGGNTGGA CTCAGN 96

SEQ ID NO:4313

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05129

SEQUENCE DESCRIPTION:

GATCTGCTGG TCCTTGCAGG CAAAGCTACA GCCAGANTGT CCGTTTGANA CTCCTAGCTC 60
 ATCTGTCACC GAGCTTNATC CGAATGTGCC ACGGAGCTTN CTCTCCACTT CCTCCGTGCA 120
 GCGGCCCTGC CACAGCCCTC CCTCGGCACA CTTTGACCCT TTGTAGGGTT GGNATTAGCA 180
 GGA CTGCTGCT ATTTAAAGCA CCAGTCTGGG GTCGCCTGGG CCCCTGCTGA CCCNTTCCTN 240
 CAGAGCAGCC AGCCCAGCCC GGGAAACAAGA CGGACTTNCT ATNCC TTCGG ACTCACAGCC 300
 TTTGAAGAGT CAAGCTNCAC TTNAAGCTCA CTCAGTAATA TCCTTTCAAT GNGN 354

SEQ ID NO:4314

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05130

SEQUENCE DESCRIPTION:

GATCCGCCAC TTTCGGCCGG AGCTCGAGGA GCGGATGCAG CGGTTTGCCC AGCAGCATCA 60
 GGCCCGGCAG GCTGCCTCTT AGCCACACAC CCTGGCCTGC TGTCTGCGT CTATCCATGT 120

GGAATGCTGG ACAATAAAGC GAGTGCTGCC CACCCTCCAA A 161

SEQ ID NO:4315

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05132

SEQUENCE DESCRIPTION:

GATCCTGGCT TTCCAGGGTG GGCAAGGGCA AGGAGCAGGC TTGGAGCCAG GGACCAGTGG 60
GGGCTGTAGG GTAAGCCCCT GAGCCTGGGA CCTACATGTG GTTTCGTAA TAAACATTT 120
GTATTTAAA 129

SEQ ID NO:4316

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05133

SEQUENCE DESCRIPTION:

GATCTTTGAG GTGAACAACT TGCCTGTGGA ATCGTGGCAG TAACTGTTTC CACTCACAGC 60
CTGAAATTCT CCTNTGTCCC AAACCCAGG GGGCCCAGC AGCTTCGAAC CTACACCTGA 120
GGGCTACCAG CAGGTGGCGC TNTGGCTTTG CACTGCAAAA ACTGGGGACC AGCCCNCTTC 180
TNCCACAAAT AAAGCCCAAT AAAGCCTGAG AAGTGAGGAA AGCCAAA 227

SEQ ID NO:4317

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05134

SEQUENCE DESCRIPTION:

GATCTCCGTG GATGAACTGC GTCTGGACTC TTAGATTCAT AAAATATTCG AGGGTTTGGA 60
AGTNACAGAC CCTCCCCTCT CCTCAGTGCA CTTTGGCATT TNCACGGTGT CTTCCCCGGA 120
CAGCACAGCA ATAAATNGNG TGATTGCGTG GAAA 154

SEQ ID NO:4318

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05135

SEQUENCE DESCRIPTION:

GATCAGGTTT GGNCTTCTCC CACTGAGCAT GACAAGCACT CGAAAGGCTA AATCAACCAG 60
AAACATCGAA ACAAAGCTC AGTACGATGC CAACTNTTAA GCCTGCAGGA NTCCTCCTGG 120
GTTGTCCCC CGGCACGNTC CACAGCTGGT NGACCCGGCA GTTCCTGGNT CTTGTTTCAG 180
N 181

SEQ ID NO:4319

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05136

SEQUENCE DESCRIPTION:

```
GATCTGCCCT TGNTNGCCTC ATACCTCTGT GCTCCACACT GCGGCCAGGC CAGCTGAGTC 60
CCTCCATCCG TGGATGCTTT CCTGCAGCTA TGTGGTATGG GGGTCATTCC TGCCTCTTGG 120
CACCAGGTG GGGGGCATGT GCTTGTGGG CACCAAAGTG ATGGAACCCT CAGGTGCTCT 180
CCGGGAGCCT GAACCTCCTG ACTGAGGAAC ATGGGCAGAA CATGTTTATT GCACAGAGTG 240
GGCGTCTGCG ACAGGCGTGG CTGTACACGT GCTCTCAGCT CATCATCCTT TCCAGTAACT 300
TTAAAAAAC ATCCN 315
```

SEQ ID NO:4320

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05137

SEQUENCE DESCRIPTION:

```
GATCGNGNNA CTTGGGGNGN GGCCCTAGGC ACTACCAGCA GCGCACGCTC ACCTTCGCCC 60
TCAGGGCTGA CGACCCCTG CTCAAGCTCT TGCAGGAGGC TCAGCAAAGC TGAATTAAC 120
CAGGCAGAAG AGCAGAGATG TGTGGGATTG GGGGAGGAGT GGGGACAAGA TTTTNNATCT 180
CTAAGTGAAT TTTCTAAAAA TGTATTTTAT ACCGGCTTAT TCCTAGTATT GNATAAACTA 240
GCGGGNTCAN TCAAA 255
```

SEQ ID NO:4321

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05138

SEQUENCE DESCRIPTION:

```
GATCAACAT GCATGGNTGG GTCCTCACGC AGACACACCC ACAGAAGGAC ACTAGCCTGT 60
GCACGCGCGC GTCNATCTAC ACACACACAC AAGAGTTCAT AATGTGGTGA TGGCCCTAAG 120
TTAAGCAAAA TGCTTCTGCA CACAAAACCT TCTGGTTTAC TTCAAATTAA CTCTATTTAA 180
ATAAAGTCTC TCTGACTTTT TGTGTCTTCA AA 212
```

SEQ ID NO:4322

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05139

SEQUENCE DESCRIPTION:

```
GATCGAGTTA TTATGATAAC TGTGGTAATT TGTGTTATA AATAGCAGTA ACATAGGAAG 60
GTTTTGGTAA CTNCTGACAA GAAATTTNAT GTAGAGAGTT AATTCGAGC ACATTAAAT 120
GACTGTCCCA CTCAAA 136
```

SEQ ID NO:4323

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05140

SEQUENCE DESCRIPTION:

GATCTGCATT ATTCTNGGAN AGTATTCAAG TGGTATCTTG ACTATTAAAC TACGTATAGT 60
 GTTNNTGNAA TAGAAAGAAA ACAGCATTGG AATTGGATTG ATGTATCGTG GGATACAGGT 120
 GTTATTTCAG GTGATGTACT TGCATTATTT TCTTTAGCCA TAGTAACTTT TTGTCACAAT 180
 AACTAAGTAT TCAATTATAT ATAANGAGTG AAACATTAAA ATGGNAAA 228

SEQ ID NO:4324

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05141

SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCACTCCA GGCTGGGCAA CAGAGTGAGA CCATGTCTCA AAAAATAAAA 60
 ATAAAAATAA ATAATATCAG GNTGCATACA TCAGAGGCTG TTCCTAGTGT AAAGGCACTT 120
 TGGAGGGAGA AGACTTTCAG AGTTAGGCAG ACCAACTAAG AGGTCAGCTG ANGCACCTAA 180
 CCAGTTGTAA GGAGGTGAAA GACAGCACCC CAAGANGAGA TGTGCAGGAN GGAGGAAAGA 240
 GGCTTGGTCA TAAAGGNTGG AGGAATTCCA AAGTGACACT GANACAGGCT GCGTTN 297

SEQ ID NO:4325

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05142

SEQUENCE DESCRIPTION:

GATCGTTCTG CTGAGTATGT TAAGCTCTTT ATGACTGTTT TTGTAGTGGT ATAGAGTACT 60
 GCAGAATACA GTAAGCTGCT CTATTGTAAA 90

SEQ ID NO:4326

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05143

SEQUENCE DESCRIPTION:

GATCTGCTGC TGCCATTTTA ATCTTGCTCA TTAACCTTAC TCCTTTGAGA ATTCTTTAAC 60
 AATATTTAAA ATTGGTAACA AAAATAGTTT AGCCATAATT GTTAGCCAT GTGAGTTTCA 120
 GGTGGGTACA CGTTCAGACA GAACTGCTGT ATCACATTCC AATTTTGAAT AGCCAGTGAG 180
 CAATCAAGTG TAGAGAAATG ATAAATGGCC TAAGAAGGCA TACAGTGGCA TAAACGATGC 240
 TCTTCTAGT AGCTTAATAG GCCACAAGCT AGTTTCTGTT GCACTCTGAA ATAAAAATG 300
 CTTTAAAAAT GTAGGGANCA GTGCTTAGAA AAGCAAAANC TAGGTGTGTC ATTGANATAA 360
 TAGGCATAAN ACTTAAATGT TCCATAGGCC ACTATTTGGA AGGGGGCCTT N 411

SEQ ID NO:4327

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05144

SEQUENCE DESCRIPTION:

GATCTACACA TTTTATAGT CATTAAAAAT TGTATGACTC TGTCAAATNA TTAAAGTAAT 60
TTTGGTGGAT TTTTAAAAAT AAAAAAATAA AAATAGAAA 99

SEQ ID NO:4328

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05145

SEQUENCE DESCRIPTION:

GATCAGTTTT TATAGCATCT ATGGACATAG AAAATCAGTC ACTGAAAAAA ATAAACACAG 60
CTTTCAATGT CTCACTCAAA 80

SEQ ID NO:4329

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05147

SEQUENCE DESCRIPTION:

GATCCAGAAT CACCAAGACC TCCAGCCCTG GATGATGCCT TTTCCATCCT GGACTTATTC 60
CTGGGACGTT GGTTCGGGTC CCGGTAGCCT TGTTAACCCT CAGAGGCCTT CAAGTCCTTT 120
CCACCTNTCA CCCATTGCCC ACCATTAANA AGCTTAGCTG NNTCTTGCCA CCTCAGGGGC 180
TTGGATATGT GGAATAGTGA ACTGGGNCCA TGTCAGTTTG TCACTNACCC AAAGTGACCA 240
ATAAAACCTN NATTTATGNT AAA 263

SEQ ID NO:4330

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05148

SEQUENCE DESCRIPTION:

GATCCTAANN CTGACAAGAT TCAAAGNACT AAATTTAATT CAGTCATNAA CACTACCAAT 60
TACCGTTTAT NGGTAGACAT CTTTGGAAT TTCCACAAGA GCAAGCTAGG N 111

SEQ ID NO:4331

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05149

SEQUENCE DESCRIPTION:

GATCTGACCT GTTTATTGTT GGCCTTGT GAAAACGAGC TTTCTTTCCC ATGATAGTGC 60
 TTCGTTTTTG AAGTGTGAA GCTGTGCTCC CCTNAAATCG TGGCAGGAGA GATTAAGGTA 120
 ATTACAACAC TCAGTTCTAT GTCTTACAAG CACTTTGTCT TGTCTCTGCA AGAAAATTCG 180
 ATNCCNGTCA TNTCCATAA AATACAGNCA TTTTACCANC ATANTATGCT TTGATTGANG 240
 CAGCANTATG CTTTGGGCA GTAN 264

SEQ ID NO:4332

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05150

SEQUENCE DESCRIPTION:

GATCCTCCCG CCTCAGCCTC CCAAGTAGCT GGNATTATAG GTGTGTGCCA CTGTGCCAAG 60
 CTAATTTTTT AATTTTNGT AGAGATGNGA TTNACCATG TNACTCAGGC TGGTCTCAAA 120
 CTCCCAGCCT CAAGCNATGC TCCCACCTCC ACCTCCCAA GTGCTGGGAT TACAGGCCGTG 180
 AGCACCATAC CTGGCGCATG CATATTTTNN AAGAGTACCC ACTGGNGTCT AATATATAGC 240
 CTGGGNTACC TGGGATGAN 259

SEQ ID NO:4333

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05151

SEQUENCE DESCRIPTION:

GATCTAACCA ATTTGAATAT GACTTCCTAC TCCAACGTAT CACCAAAACA CTGAAAAGCA 60
 ATAGCTGGTT TGGTTGTTAG AAATGGTGA ATTAATGGTT TTNGTTAGTT CACTTCAGCT 120
 TAATAAGTAT TTATNGCATA TTTGCTATGT CCTCAGTGA CCACTACTTA GAGATATGTA 180
 TCATAAAAAT AAAATCTGTA AACCATAGGT AATGATTATA TAAAATACAT AATATTTTTC 240
 AATTTTGAAA 250

SEQ ID NO:4334

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05152

SEQUENCE DESCRIPTION:

GATCGCATTT ATATAACATT CTTGAGGTGA CAAAATTATT GAAATGAAGA ACAGATTAAT 60
 GGTGCCAGG GATAGGGACT GGAGGGGGTG TGGGGTATGT ATGACTATAA AGGGATGACG 120
 CAAGGAGTTC CTTTGTGCTG ATGGAACAGT TCTATATGAT TATGATGATT ACGATGTTGA 180
 TTATAACATT TGATTATGAG GTTAAGCACA TGAGTCTTTA CCTGTNCTGA AGTTGTATGG 240
 ACCTACATAC ACACAAATGN 260

SEQ ID NO:4335

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05153

SEQUENCE DESCRIPTION:

GATCAAGACG AGCCTGCACC GCCTGAAGCC CGACACGGTG CCAGCGCCCT GCTGCGTGCC 60
CGCCAGCTAC AATCCCATGG TGCTCATTCA AAAGACCGAC ACCGGGGTGT CGCTCCAGAC 120
CTATGATGAC TTGTTAGCCA AAGACTGCCA CTGCATATGA GCAGTCCTGG TCCTTCCACT 180
GTGCACCTGC GCGGGGGAGG CGACCTCAGT TGTCTGCCC TGTGGAATGG GCTCAAGGTT 240
CCTGAGACAC CCGATTNCTG N 261

SEQ ID NO:4336

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05155

SEQUENCE DESCRIPTION:

GATCCTCAGT AAACCTCTGAG AAATAATGAA TGTTGGTTGT TTTAAATGG TAAATNTTGA 60
GGTATTATGT TATGTGGCAA TAGATAGCTA ATATATAACT NATTTGANTC AAACAATATG 120
TTAANTTAAA GCNCAGAAGA NTAAA 145

SEQ ID NO:4337

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05157

SEQUENCE DESCRIPTION:

GATCTAAGGA AAGAAATGGA GCAACTAGTG CTTGACAAAA AGCAAGAGGA GACAGCCGTA 60
CTGGAAGAGG ATTCTGCAGA TTGGGAAAAA GAACTGCAGC AGGAACTTCA AGAATATGAA 120
GTGGTGACAG AATCTGAAAA ACGAGATGNN AACTGGGATA AGGAAATAGA GAAAATGCTT 180
CAAGAGGAAA ATTAGCTGTT CCTGAAATAG AAGAATAATC CTTAACAGTC TGCAAATGA 240
CATTAAATTC TAGATGTTGA CAAA 264

SEQ ID NO:4338

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05158

SEQUENCE DESCRIPTION:

GATCGGGGCG GGGAAACAGC NGGAAGANGG NCGCACCCGG TCTGACTACA ACANCCAGAA 60
AGAGTCCACT CGGCACGTGG TCCNGCGCGT GAGGGGGGGT GTCTAAGTN 109

SEQ ID NO:4339

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05159

SEQUENCE DESCRIPTION:

GATCAGTATA CAGTGTACGT AAACACACC ATCCTCAAAC CCCGAAAGC AAAGCAAATC 60
AGGAAGAAAA GTGGAGGTTA GCAACACACC TNTGGCCCCA AAGNACAACC ATCTTGTTAA 120
CTATTGATTC CAGTGACCTG ACTCCCTGCA AGTCATCGNC TGTAACATTT GTAATAAAGG 180
TCTTCTGNCA TGAAA 195

SEQ ID NO:4340

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05160

SEQUENCE DESCRIPTION:

GATCTAATAT TCAGGAATTT TTCTCCTAAA GACACCCAGT AAAAATATCA CAAA 54

SEQ ID NO:4341

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05161

SEQUENCE DESCRIPTION:

GATCACTGTG TAAACTAAG TNTCTCTAAA TGTAATGCAT CGATTTAGTG TCTGGAACAT 60
AATAAATATT TGCTCTCATG ATTGCTAAA 89

SEQ ID NO:4342

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05162

SEQUENCE DESCRIPTION:

GATCTACATC CCCATCCACC TATACGGACA TCTTTTCCGT TGTGGTTTGA GAATGTTCTT 60
ATAATAAACC CCTCTGCTTT GTTCTTAAA 89

SEQ ID NO:4343

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05163

SEQUENCE DESCRIPTION:

GATCGTCTTG TATGGTGAAT TTTCTAGGAG CGATGATGTA CTGTAATTTT ATTTAATGT 60
ATTNNGATTT ATGATTATNT ATTAGTTGNN TTAAATGCT TN 102

SEQ ID NO:4344

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05164

SEQUENCE DESCRIPTION:

GATCAATTNT GCANCANACA NCAATCTTAA CCATTTCAG AACTACTAG TTATATTAGG 60
 CACGTTTTAA AACTTAAAC AAAATAAAGG CCATCCCAA CCCTGGGCTG TTGTCGGGTT 120
 ATTTTGCAGC AGGGTTGTGT TCAAAANCTT CCTTGACTC CCTGAGACTT TATCTNCTNC 180
 TTGCAGAGTA AGATGGAAAG CCANTCAGTG TTTGCNGTAA TGTAATACAG NGTAGTGCCA 240
 TTCNGGNN 248

SEQ ID NO:4345

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05165

SEQUENCE DESCRIPTION:

GATCCAAACT TCTACAGCA AACTTACTT CTTTAGGAA AGACATACTT GAAACTACAC 60
 AACAAAAAGC TTGCTGCTTT CTGGCTAATG AAAGCCAAGG ACTATCCAGC ACACACAGAG 120
 GAGGATAAAC AGATACAGAC AGAAGCTGCT CAGTTGCTTA CAAGTTTCAG TGAGAAGANT 180
 TGAGAACTTT TCAGAGAAGA TTTATGAAAT AGCTAATAAA CATTGCCTTT TCTTTTAAA 239

SEQ ID NO:4346

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05166

SEQUENCE DESCRIPTION:

GATCAAAAAA TGTCTCCGCT CAGGGATTTA TGGTGGATTA TTGCAGACAN TGCTAAAAAT 60
 ATAGAGCACA AGACAAGTTT ACTAAATTAA AATTTTATTT TTTGAGAAAC TGTATTGT 120
 ATAAATTATC AAGATTGTGA GGCTTTCCTT TNGTAGAAAT AATTGTTTAA TGTGCCAGAG 180
 AATTTCAATT TNGTTTCAA CAATAAAGCA TTGATAAGAG AAA 223

SEQ ID NO:4347

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05168

SEQUENCE DESCRIPTION:

GATCATTTGT TTATTTAAAT GTGTCCTATT ACACAGTGAG TTAACCTCA AA 52

SEQ ID NO:4348

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05169

SEQUENCE DESCRIPTION:

GATCCGAGCG ACCATGGTGG CCCGGGTGTG GTCGCTGATG AGGTTCTCA TNAAGGGAAG 60
 TGTGGCTGGG GGGCCCGTCT ACCTGGTGTG CGACCAGGAG CTGCTGGGGC CCAGCGACAA 120
 GAGCCAGGCA GCCCTACAGA AGGCTGGGGA GGTGGTCCCC CCNGCCATGT ACCAGTTCAG 180
 CCAGTACGTG TGTCAGCAGA CAGGCCTGCA GATACCCCAG CTCCCAGCCC CTNCAAAGAT 240
 TTTACTTTCC NATCCGTGAC TCCTGGAATG CAGGNATCAT GGACGGTTGA TGTCAGNTCT 300
 NNTNGGTGGC CCCTTTCAAA GGGNCNGGTG AGTN 334

SEQ ID NO:4349

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05170

SEQUENCE DESCRIPTION:

GATCCATCAA ATTGAACAAT CTGTTGTAAT TAAAAATTTT GGCCACTTTT TTCAGATTTT 60
 ACATCATTCT TGCTGAACTT CAACTGAAA TTGTTTTTTT TTNCTTTTGT GATGTGAAGG 120
 TGANCATTCC TGATNNNGGC CTCNNN 146

SEQ ID NO:4350

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05172

SEQUENCE DESCRIPTION:

GATCTCAAGC CTCTTCTGAA CCCCAGGCTT TCTTGAGTCT CCATATGAGC ATTTGCCTCT 60
 GTGGGCACAA CTTCAAGTGT CCTTTGTGAG GAAATGTGCA TCTCTGGNTG GTGAACTTCC 120
 ATCCCTCAGA GAGAAATAGA AGCACAAATT TGAAACAAGC TGTCTGTCTG NGNNNNNNCT 180
 TTATGTCTTG GAAACTTTAT TTATCCATCC AAGCTTTNTT TTTTTTTTAG CCTTNNGGG 240
 CAGGNAACCA TCCAGGN 257

SEQ ID NO:4351

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05173

SEQUENCE DESCRIPTION:

GATCTGTCTA CTGAGAAGAC CCAAATCTTG GTTTCTAAAT GCCATTCTTC AATAAAAGGA 60
 ATTGGGTTTC AAA 73

SEQ ID NO:4352

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05174

SEQUENCE DESCRIPTION:

GATCTCCTTC TCCNTCCTGT CCTGTCCTTG CCCCTCAGGA CTGCTGAAA ATAAATCCTT 60

TAAAATAGTG AAA

73

SEQ ID NO:4353

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05176

SEQUENCE DESCRIPTION:

GATCCAAGCA GGGGGATGAA AAACCTCAGCA GAGAAATTCG AGACCATTTT CCAAGACTNT 60
 CCCCTTCTCC TCAGGACCCC CTGGCTCAGT NCTTGAAAAA CGGTGTCATA TTTAGTCAGA 120
 GGGCCCCACC CCAGGAAGCA TGGATGGGGA TGAAGGCACA GGCCTCTCCA ACCTCAGAGG 180
 CCCTTTGTGG GGTCAAGACA CAGAGTGGGN AGANGAGACT GATGCAGGCC TACCAGTNCC 240
 TGGCTTTTGG TCTGGGGCTG GAATAAAGAG GTGNCTTCAG CTGTTTGGNN CGAGAGGCAG 300
 GGTAAG 306

SEQ ID NO:4354

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05177

SEQUENCE DESCRIPTION:

GATCAACTGG AACCTCTGTA TCATGCGGCT GAATTCCTT TTTCTTTAC TCAATAAAAG 60
 CTACATCAGA CTGAAA 76

SEQ ID NO:4355

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05178

SEQUENCE DESCRIPTION:

GATCAGGCTT TTAGGACCTA GGAAACAAAT AAAGAGGAAT TTGTTGCTGA AA 52

SEQ ID NO:4356

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05180

SEQUENCE DESCRIPTION:

GATCCTTATT CTAGCTACAA GTCAAAGATA ACTCCTGGTC CAGACAAAAC ACCTGGCCTA 60
 TCACAAGCTG ACTAAAAATC TGCACCTTGG GCCAGCGCAG GCAACAGTAA CTNTGACAGG 120
 TTCAAATTAG ACCTCACACT TTCTACTCAT ATTCTAGTCA CTGGACCCAT CTGANTCAGT 180
 AATCCCTNCT GCGCGGTCCT GGAGTAAGT CTTAGAGATA TTATAGCAAG TGGCAAAANT 240
 AAAAGAGGGA TTTGCTANGA NTATCAAA 268

SEQ ID NO:4357

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05181

SEQUENCE DESCRIPTION:

GATCTCAAAT ATAAATTGA GATTATACAT GTAGTTATGT ATAGNGNCAT GTAGTTACAC 60
 ATAGTTTGT ATTTNCCTGT TTTTCTCA TATGAGCATT TNCTATTAA NGTN 114

SEQ ID NO:4358

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05182

SEQUENCE DESCRIPTION:

GATCTACACG TGTTGTTTG TTTTNCCTT ATTGATGCAC GNATGCTTTT GAACAGTAGA 60
 GNGAAATGCT AGACATGGAG AATCTGCTCT GTTGTCTCTN TATACATTTC TGTAGTTAAC 120
 AGAACACTGT AATGTGCCTT GGAGCTTAGT AACTNGTAAT AAATTCAATN GATATTAAA 179

SEQ ID NO:4359

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05183

SEQUENCE DESCRIPTION:

GATCCTAAAT CCTATGTAGG CTNNGGTTAT TAGTGTATAT TTGTGTCTTA AAACAATTTT 60
 GAAAGTNAAA AAAATATTTT TTAAA 85

SEQ ID NO:4360

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05184

SEQUENCE DESCRIPTION:

GATCTNATTT TGAGATTAAA AAAAATACTT CTAGCTTTAG CCAGGTGTGC ATGTNGCTGC 60
 CATTTTGCAT TTTTGAATCA TCTTGTGTAA TTGTCACCAT GAAAGTGTTA CTCAGAAATNG 120
 TCATAGATTT NNTNTTCTT GTGCAAAAAC ATGGAAAATT GTCAGTACT TTGTTTGTAG 180
 GTTCCCCCGG NNNN 194

SEQ ID NO:4361

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05185

SEQUENCE DESCRIPTION:

GATCTGCTGT ATGTTACAGT TATGTAATTT GACTTGTTTC AAAATTATTA AAGTTTAAAG 60

TGTATGCATT CTA CTGGTCA ATAAGTAAAT ATATTCAGGC TCTGAATGTA GACAGATAAA 120
 TATATAAATA TAGAAAGTAC ATTTGTTAGA ATACAAACAA GAATAAAAAT TGAGTACAGA 180
 NTGAAAACCT TATTAAATTT TATCACTCCA TATAAA 216

SEQ ID NO:4362

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05186

SEQUENCE DESCRIPTION:

GATCAAACTC AAGCTCACAC CTGTACCTGA TGGGAATGAA CATAATGTGA AGAAACTTAT 60
 TTCCCAGTGT AAACGCAGTT GTACAGAAAA AAAATGTTTT GGGTATAAAT CTGGGTTTTTC 120
 AAAACCAGCT TTNTTCTATA TATAAATNAT GCTGCTATTA CAGATTTAAC ATTNCTGTT 180
 AAAGGAAAGT CTACATTTTC TGCCTGTNCA GAACTGTTA ATAGCAGTNN CTCTTGAGTG 240
 TATTNCCCTT GGTATGTTTT TNAACCTATT TTCCTTNAAG CCGAAAATAT TGCCAATTGG 300
 ATANGGTTAG CCTTANNAAG TNNAATAAAN NAN 333

SEQ ID NO:4363

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05187

SEQUENCE DESCRIPTION:

GATCAGCCAG TCTCTTTCAT CATCAAGCAG ACATACTCAA GGTACCAACA CAGCAAAGGC 60
 ACAAATGTC TCTATATCAG TATTTTTCAT GGTATATGTG AGACCCATTA GTGAGGCATG 120
 AAATCAATTC TGTGAGTCAC AATGAACATT TGTCTAAAAA ACATAATAAA NTGTAAAATA 180
 CCAAA 185

SEQ ID NO:4364

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05188

SEQUENCE DESCRIPTION:

GATCCTTTCC CATTTATTCT GGGAAGATGT TTTCAAAC CAGAGACAAG GACTTTGGTT 60
 TTTNTAAGAC AAACGATGAT ATGAAGGCCT TTTGTAAGAA AAAATAAA 108

SEQ ID NO:4365

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05190

SEQUENCE DESCRIPTION:

GATCATTTGG CTCTTTTTTT CCTTCAGAA GAGTNGCATC AACAAAGTTA ATTGTATTTA 60
 TGTATGTAAA TAGATTNAA NCTTCATTAT AAAATATTGT GAATGCCTAT AACTTGTTN 120

NCAATGTGNT TGTGTGTGTT TCTAAGGACT TTTTCTTNGG NTTGCTAAAT ACTGTAGGGT 180
TGAAAATGCT TCTTTCTACT N 201

SEQ ID NO:4366

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05191

SEQUENCE DESCRIPTION:

GATCCTTCAT GGACANTATT CTAAGTATA CGTAGACACT TACTTGGAAA TTTTGGACA 60
TTATATTAAA TGAGTGCTAT CTGTGAAATT GGTATATTA GGTGGCTNNN NCTAATGN 118

SEQ ID NO:4367

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05192

SEQUENCE DESCRIPTION:

GATCTGAGGT CTCAAGCTAG GAGAGACTGA GAATTTTAAT CAGTTTGGGC ATATAGTTTG 60
GACTGAATCA CATCTGTAGT ACTTAGCCAA AGACAATTG GAGGAGAATA TCAGCCTTCT 120
GGAAGTAGCT ACTTCCTGNT CAATGTAAAG TGTCGCAGAT ATTCAATAAA ATGGCAACCT 180
GTTATAATT TNTTGAATAT CAGCCTTCTG GNAGTAGCNA CTCCTGTAN CAAANGTAAA 240
NGTCGCAGN TATTCAATAA AATGGCAACC TGTTTTN 277

SEQ ID NO:4368

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05194

SEQUENCE DESCRIPTION:

GATCTCTTGA CAANTGTGTA TGTTAACTTT TTAGCACATG TTTTGTACTT AGTACACGAG 60
AAAACCCAGC TTTTCATCTTT TGTCTGTATG AGGTCAATAT TGATGTCCT GAATTAATTA 120
CAGTGTCTTA TAGAAAATGC CATTAAATAA TTATATGAAC TACTATACAT TATGTATATT 180
AATTAAAACA TCTTAATCCA GAAATCAAA 209

SEQ ID NO:4369

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05195

SEQUENCE DESCRIPTION:

GATCGTGTG GAGACTNTNA CACAGTTTAA ACACATCAAT AAATACTTTA ACTTCAAA 58

SEQ ID NO:4370

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05196

SEQUENCE DESCRIPTION:

GATCGAGGTA GTAAAGGCCA TCCACATTTT AAAGGGTTAT TTGTCTNTNN TATAATNCGT 60
TTGCTTTCAG AAAATGTTTT AGGGTAAATN CATAAGACTA TGCAATAN 108

SEQ ID NO:4371

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05197

SEQUENCE DESCRIPTION:

GATCAACAG GGACACAAAA GCAAGTATCA TGGGAGGAAC TTGAAATCTC TGNGGACAGC 60
AGAAGCTGAC TTCAACTCTN ATAATTGTGG CATCCATAAA TTGCAAATAT AGCCCTGAAT 120
AGATACACAC AAATGTCTAT AATGAAGGCC CAGCAGAATG GAATGTGTGA CCATCTTCAG 180
GAAGAAAAATN 190

SEQ ID NO:4372

LENGTH:241

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05198

SEQUENCE DESCRIPTION:

GATCAATCCC TAGTAAAAGC CCTGGACACC TAGGCATGGG TGAGCTACTN TGGTTGGTAA 60
TACTCTGTGC ACACATCATT GTAGCCACAC ATCATTGCTG GGAGAATTAA GCATTATCCT 120
GAAGACTCTG CCAGGAGAGG ATAATTGGAA GTTCTCTTGG ACCTTACCTT ATGTGCCTTT 180
NTTCATTGCT GATTTTAATC TGTATCCTTT CACTGTAATA AACTGTAACT ATGNGTGCAA 240
A 241

SEQ ID NO:4373

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05199

SEQUENCE DESCRIPTION:

GATCGTTCAT TGCCTTTCCA GGGTTATTTA GTAAAGTTTG TTGAAAACAA A 51

SEQ ID NO:4374

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05200

SEQUENCE DESCRIPTION:

GATCTCAGGT GATTACCCG CTTCTGCCTC CCAAAGTGCT AGGATTACAG ACATGAGCCA 60

CCGCACCTGG CCATACAATT GCCTTCTATA TGTTTTTNAT TTAATATGAC ATTTGTATTT 120
CCCCATGTTA TTAATAAATT CTNTATAAGC AAA 153

SEQ ID NO:4375

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05201

SEQUENCE DESCRIPTION:

GATCACCCCA CCCTGTGAAG AGGCAGTTGG TGCTGGCAGT AAGCTGGTTT CCTCCTCTCC 60
AGGGTTTTCC TAGTAATAAA GGTGTTNCTG TTGANGCCGT AAA 103

SEQ ID NO:4376

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05203

SEQUENCE DESCRIPTION:

GATCACATTC ATTCCATAGG TAGCTTTACG TGTGGCTACA ACAAATTTTA CTAGCTTTTT 60
CATTGTCTTT CCATGAAACG ANNTGANGAA AATGATTTTC CCTTGCAGG TTGCACACAG 120
TTTTGTTTAT GCATTTCCTT AAANTTAATT GTAGTCTCNA GGATACAAAC CATAGTAGGC 180
AATACAATTT TAGAATGTAA TATATAGAGG TATATTTAGC CTCTTTTAGA AGTCAGTGGA 240
TTGAATGTCT TTTTATTTTA NNTTTTACAT TCATTAAGGT GCCTCGTTTT TGACTTTGTC 300
CATTAAACATT TATCCATATG CCTTTGCAAT ANCTAGNTTG GTGNAAAGCT AACCAAGTGT 360
TGTAACCANT AATCNTTGT TTNGNGGTGN 390

SEQ ID NO:4377

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05204

SEQUENCE DESCRIPTION:

GATCATATGC AGGACTCTTT CTTAATGCAG CCTGAGACAA ATCTTGCAAT ATGAAGAGAT 60
GATTTCCAGG TTTTATTGAA TAAATGAATT GTAATTTTTA CTGAAATTA TCTTATTTAG 120
TATAATAAAT ATTACAATAT TAAA 144

SEQ ID NO:4378

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05205

SEQUENCE DESCRIPTION:

GATCCCACAG CGAAACACTG GCCACTGGCT ACCAGTATTN CTTCCCAGAG CTAGGGGCTG 60
CCTTAAAGGA AATTGTAGCC TAAGTAGGTC GTGGCAAGGG CCTGAGGCCT GTTCCTCACA 120
GGCTTCCAGG TTAGGCACTG TGAATAGGCT CAGCTCCTCT AGAGAGCTGA AGCCATCTGG 180

TTCTTAGATT CCTCTCCAG TCCTCTTCC CATTGTTCTG TTGCTCCACC TTATTGTCTC 240
 AAGGCCGTAA TCTCATCAGG TTGGGACATT AATCTTTTCA ACTCCTTTGT AAAGATTTC 300
 CAGTTTGGTT TCTCTACATG TNCTGCAGCT GGCCNCAATT CTCCTTTNAC GTTGTGTAGA 360
 GAATGNTCTG CAGTTTTAGG GCAAGN 386

SEQ ID NO:4379

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05206

SEQUENCE DESCRIPTION:

GATCTAAACG AAAAATAGTT TCTTGTTTAA ATTCACATAA GGCAATNAGA TATGGAAAGA 60
 TGACAAGATA CGTATAACA TTGGTTTGCA TTTTATTAAA TNATTCTAAT GCAAATCTTG 120
 TATAAAGAAC CCATGATGTT TTGTAACTTT CTAATTAAAA TGTTCAAAAT GAAA 174

SEQ ID NO:4380

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05207

SEQUENCE DESCRIPTION:

GATCTTGGTC AATAACTGGG AGATGGACAA ACTAGAGATG GAAGATGCAG TCACATTTT 60
 GAAGACTAAA ATCTATTCAG TAGAAGCTCT TCCTGTTGCT GCTGTAAATG TGCAAAGCAC 120
 ACAATAAAGT GAAATCAAC CTTTTCATAT TAGGAGACAT GCATTGTGAA AAATTAATAA 180
 AGATGACAAG TCAGTTGTCA ATGGAAA 207

SEQ ID NO:4381

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05208

SEQUENCE DESCRIPTION:

GATCAGCACC TTGGCCGTGA TTCCAAGGT CCCAGCCAAA GCAAAGGGCC AGTTGTTTCA 60
 GTTTAAACAG ACATGTCTTT AGTCTAATAA AATTAGTTAA CTGCCAGTAA AGTTATTTGT 120
 TAGCTTTGNT GAAAGCTATG NNGGTATCTT TCCCTAATCA TCAAAGTAAA TAAAAANTCA 180
 TTTCTNAAA 189

SEQ ID NO:4382

LENGTH:502

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05209

SEQUENCE DESCRIPTION:

GATCTGTTCT TTTTAAGTTG ATTCGGGAGT GGCATTCTTT TATACCCAAA GACTGTAGTG 60
 CATCTTGAAG AGCTCAAAGC ACATGACCGC ACAAATGCTT ACAGGGTTTC CTCCCGAGTA 120

ATCCAATCTC ACTCCCCTTG TAAGGGAATT CTGGGGCAGC TATGGTTTGA GTATGCAGTT 180
 TGCATCGTGT TTCTACCTTT AGTACCTTGC CACTCTTTTA AAACGCTGCT GTCATTTCCT 240
 ATTTCTTAGT ACTAATGATT CTTTGATTCT CCCTCTATTA TGTCTTAATT CACTTTCCTT 300
 NCCTAAATTT GGTGATTG CATATCAAAT TCTGGTAAAA TNGTTTTNGG TAAANCATAT 360
 TTACCCNCAC TTGGGGTAAA TCCCAATTCC TGGNTAGGNN CTTTAAAAA NGGGTTTTTN 420
 NTAATNGGG NNAATCCAAT TATTAATAAN GGGGGGNCCN TTTTTNAAG GGNGGAANAA 480
 ANGGNGAGGG GGNAGNTNGN GN 502

SEQ ID NO:4383

LENGTH:383

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05210

SEQUENCE DESCRIPTION:

GATCTCTGGT CAGAGTGAAC TCTTGCTTCC TGTATTCAGG CAGCTCANAG CAGAAAGTAA 60
 GGGGCAGAGT CATACGTGTG GCCAGGAAGT AGCCAGGGTG AAGAGAGACT CGGTGCGGGC 120
 AGGGAGAATG CCTGGGGGTC CCTCACCTGG CTAGGGAGAT ACCGAAGCCT ACTGTGGTAC 180
 TNAAGACTTC TGGGTTCTTN CCTTCTGCTA ACCCAGGGAG GGTCTAAGA GGAAGGTGAC 240
 TTCTCTCTGT TTGTCTTAAG TTGCACTGGG GGATTTCTGA CTGAGGCCC ATCTNTCCAG 300
 CCAGCCACTG CCTTCTTTGT AATATTAAGT GCCTTGAGCT GGAATGGGGA AGGGGGNCAA 360
 GGGTCAGTCT NTCGGGGTNG GNN 383

SEQ ID NO:4384

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05211

SEQUENCE DESCRIPTION:

GATCAAACTG TTGGAGGAGA AGCTGAAGGA GGCTGAGACC CGAGCAGAGT TTGCCGAGAG 60
 GTCTGTGGCA AAGTTGGAGA AANCCATCGA TGACCTAGAA GAGACCTTGG CCAGTGCCAA 120
 GGAGGAGAAC GTCGAGATTC ACCAGACCTT GGACCAGACC CTGCTGGAAC TCAACAACCT 180
 GTGAGGGCCA GCCCCACCCC CAGCCAGGCT ATGGTTGCCA CCCCAACCCA ATAAAACTGN 240
 TGTACTAGN CTNTNAAA 258

SEQ ID NO:4385

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05212

SEQUENCE DESCRIPTION:

GATCAATGAA AGGAGACATC TGGAGTGTGC GTGCTTCTTC AGAGGGACGG GTGATGGGCA 60
 GATTGAAAA AGCACCGCAG ATGGGAACCT TAATCTTTCT TTTCTAAAAAT TGATGCTATG 120
 AAAATTTGCG TTTTCTGTAA CTTGTAAAAA CTAAAGTTG CTTGTCTACT GAAA 174

SEQ ID NO:4386

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05213

SEQUENCE DESCRIPTION:

GATCAGGCAA AAATAGTTTT CCAAAGTTAT TTTAATAAA GTATATACAA AATTCTTATA 60
AA 62

SEQ ID NO:4387

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05214

SEQUENCE DESCRIPTION:

GATCTAACGC CACACCTCCG TGAAAACACA ANTCNCACAG CAGGAACCAC NTGAACCTGG 60
ACATCAGCAG TTTATTCAGC AGATGCTTCA GGCTCTTNCT GGAGTAAATC CTCAGCTACA 120
GANTCCAGAN GTCAGATTTC AGCAACAACT GGAACAATC AGTGCAATGG GATTTTNGAN 180
CCGNGAAGCA AACTTGCAAG CTCTAATAGC ANCAGGN 217

SEQ ID NO:4388

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05215

SEQUENCE DESCRIPTION:

GATCTATGCA GACAACTGTG TATTCTGTTT TATAACAGTT TGTTTGAATT TACTTACAGT 60
TAAAAAATTT AAATATATTT ATGTTTGTAC GGAAA 95

SEQ ID NO:4389

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05216

SEQUENCE DESCRIPTION:

GATCTGGGTG AAGGGGAGAA CCTGCCATCT TATCCCTACC CCCCCGGGGC CCTCAAGCTT 60
ATTTTCTTGT TGAAGAAACA CAAAACCTC GAGATTCATG TACTGTATGT TGGAGAAAAA 120
AAATTACCTA ACTGTTCCCC CAAAAAGTC AGTATNTTTT GTACTTTGTA AAAGTGTTNGG 180
TTAAAAATGA AA 192

SEQ ID NO:4390

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05217

SEQUENCE DESCRIPTION:

GATCTGCAGC CTTTGGGTA TCAAATGGGT CAAAACCATG GGACCTGCCA CCTCCCATCA 60
 GCAATTCTGG AAATGCACTA TTTCTACTGG TGNTCTTGCT TTTTTTTTTT TTNNATTTTC 120
 TNGNTGAANT GCCAN 135

SEQ ID NO:4391

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05218

SEQUENCE DESCRIPTION:

GATCGTANTT AGTCCTTTTC ATCTCAGCTG CTCCTTAAAT CAGTGCAACC CCTCCAAATT 60
 AATGTGAATT GAAACTTGCA TTGCTTTTCA ACTTAATTGA ATACTTACTA TATGTGAACC 120
 ACTGCACAAA ATAGGGGAAG AAGATGTGGG AGACAAAGAT GTGGAGCCTG TCTTCAATAA 180
 ATTTACAGTT AGTTTCAGGG TACATTGTTT TNCTNCTGCT GTTAATTAGG TGTATCCCCA 240
 AGACAATAAA TACATGGNTG GGAAAGTAAA 270

SEQ ID NO:4392

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05219

SEQUENCE DESCRIPTION:

GATCAAAATT GGNTAAATTC TATTGTAACA ATTCGTTGG TCATTTTGGG CCATAAAATT 60
 TTTTGTAAAT AGGAATTTGT ATAAAGCATT ACTCTTTTTC AATAAATTGT TTTTAAATT 120
 AAA 123

SEQ ID NO:4393

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05220

SEQUENCE DESCRIPTION:

GATCNCACCA GTNTNCTNCA NCCTGGGCCA CAGAGCAAGA CCTTGACTCA AAAACAACAA 60
 CAACAACAAC AAAAATTCCT GAAGATTTTG CATTCTGTCC CACTATCCAT TGGTTTTCAT 120
 GTCAAGATAA TGTGAGAAAT TCTTACAAT TGCTTCCAGA AGGANTAGCC TTTTGATTTA 180
 GTGCACAGGT GTCCAGTCTT TTGGCTTCTC AGGCCACAT TGAAGAAGA ATGCTCCTGA 240
 GCCACACATA AAATACACTA NTGNTAACAA CAGCTGATGG AGCTTAAA 288

SEQ ID NO:4394

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05221

SEQUENCE DESCRIPTION:

GATCCTNCGT TCTNTTGTTA TAGATTAGTT TCGTTTCCT ACAATTTTAT ACACATGGAA 60

TAATACTATA GGTACTCTTG TTTGGCTCCT NCCATCCAGC ATAATAAGTT TGAGATTCAT 120
 NCATGTTGTT ATATGCGTCT ATGTTTCATTC CTNNNN 156

SEQ ID NO:4395

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05223

SEQUENCE DESCRIPTION:

GATCCTNCTT TTCCTTCATG NCAGCACAAG TGCTCACC GGCCAGAGCC AGGGCATGGA 60
 TATGACAAGC AGGGCAGCCT GGACACTGCC CTCACAGGAC AGCGCCAATA ACAATACAGT 120
 GTCTGAGTAT CTCCAGGGGA AAAAATAAA 149

SEQ ID NO:4396

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05224

SEQUENCE DESCRIPTION:

GATCCTGCTT GGNCTATCAC AGAGCATTGA CCATTGGCTT CCCTCATCTG AGNCGTGGGA 60
 GAGCANACTG GATAGATGAG AATTGTTTTA AAACAATTGT GAACAGAAAC TGNAGATGGT 120
 ACAGTNTAC ATCTGCACCT GCCCTTTTTT CATACCACAA AAGTATTTTT NNAGTACTGT 180
 ACTGGACTTT TTGCNAGTNN CTAN 204

SEQ ID NO:4397

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05227

SEQUENCE DESCRIPTION:

GATCCTGATG TATGAGGAAA AAGCGAGAGA AAAGGAAANG CCAACAGGCC CCCCAGCCAA 60
 GAAAGCTATC TNTGAGTTGC CCTGATTGTA AGGGAAAAGG GATGATGGGA TTGAAGGGGC 120
 TTCTAATGNC CCAGATATGG AACAGAAGA CAAANTNTA AGCCAGAGTC AACAAATTAA 180
 NTAAATTACC CCCTCTCCA ANAANTANTT TNN 213

SEQ ID NO:4398

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05228

SEQUENCE DESCRIPTION:

GATCCATCTG AGGAATCACT CTGTGTTGCA CTTATGCCCT CATAAAANAT ATTTATTGAA 60
 GAATAAA 67

SEQ ID NO:4399

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05229

SEQUENCE DESCRIPTION:

GATCAATGCA TTTNATACGG ATATAGACCT AGGGCTCTGG AGGGTGGGGN ATTGTAAAA 60
CACATGCAAA 70

SEQ ID NO:4400

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05230

SEQUENCE DESCRIPTION:

GATCTCTATA GAGGCTGGAA TGGCCACAGA GAATCTAAAT NTGAAAACAA ACATGTCCTG 60
AGGGTGTGCT CCAATACCAC CCNNTAATAC TCTCCTGAGA TGTGAAGGCT NGAAATGAGA 120
ATGCCATNTT ATTGTNACTT NCAACGNN 148

SEQ ID NO:4401

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05231

SEQUENCE DESCRIPTION:

GATCCTTGTT TTGAGCTCTC AGAATCACTC AGACAACATT TTGTAAGTGC TGCTGTTGCT 60
TTCTACATAC ACCTTATAAA GTGACATTTC AAAAGAAATA AGGTGCCACA GTTTTAAACC 120
AGAAGGTGGC ACTCTGTGGC TCCNTGTAGT ATTATAGCTA TACTGGGAAA GCATAGATAC 180
AGCAATAAAG TACAGTAATT TTACTTTAAA 210

SEQ ID NO:4402

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05232

SEQUENCE DESCRIPTION:

GATCCTGTTG CAAACTGTGA ATATTCTGAT GATGCCAGTA CAGTTTGATT TATTAAATGT 60
GGGTCCTCAA A 71

SEQ ID NO:4403

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05233

SEQUENCE DESCRIPTION:

GATCTGAACC CGTCTCCCGG GTGCTGTAAA TAGTCTGATA AACGTTTACA CAGTCTAAAA 60

TTACCCTTTA TATTTGCTGA ATACAACTCA TCTTTTGTAG TTTAAAATTT CTATTGTTTT 120
 GGAGCTAGCT GTGAGTTTCT AGAAGTGTAC AGAGTTGCTC CNGTGTTCCT GGGTCANGTT 180
 GAGTAGGGAA TAAATAAATC TGATGCNGCC TCCTGAGGCT GCCGGGGGGT TTCTGCTAAA 240

SEQ ID NO:4404

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05234

SEQUENCE DESCRIPTION:

GATCAAGNAT ATTTTTTATT TTTAAGAAAG CATAACCAGC AATAAAAATA CTATTTTTGA 60
 GTCTAAA 67

SEQ ID NO:4405

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05235

SEQUENCE DESCRIPTION:

GATCTAATTC CAAGGACTTC TCCACAGCTA AGTNAGATGC CTCANACCAT TAGGTGATGC 60
 TTTGGACAGA ACAGAGTATT TNAATCTTGT GTTTAAAGCA ATTCCTTGGC TTCGGCTCCT 120
 CACCACTTTC TATGCCAGTN TCCCATTAT GTCCCTAGTA ATGCCTATGC AAA 173

SEQ ID NO:4406

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05236

SEQUENCE DESCRIPTION:

GATCCCAGCA GTGATGTTGG TTGAGGCAGC AAACAGATGG CAGGATGGGC ACTGCCGAGA 60
 ACAGCATTGG TCCCAGAGCC CTGGGCATCA GACCTTAACC ACCAGGCCCA CAGCCCAGCG 120
 AGGGAGAGGT CGTGAGGCCA GCTCCCGGGG CCCCTGTAAC CCTACTNTCC TCTNTCCCTG 180
 GACCTCAGAG GTGACACCCA TTGGGCCCTT CCGGCATGCC CCCAGTTACT GTAAATNTGG 240
 CCCCCAGTGG GCATGGAGCC AAA 263

SEQ ID NO:4407

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05237

SEQUENCE DESCRIPTION:

GATCAGAATG TTCTAAATNT TGACTAGTTA CTTTTTATTA TGAGTTAATA TAGTTTAGCA 60
 GTAAA 65

SEQ ID NO:4408

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05238

SEQUENCE DESCRIPTION:

GATCTCTATA TTAAATNCTA AAATGGGATT AAAAGAAGAG TTGGAGAATT CACACTTATT 60
GAGTAACTGA TGTCATACAA CCTGGAATTT CTGAATTCCA AATAAATAAA TTTCACCTTT 120
TAAA 124

SEQ ID NO:4409

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05239

SEQUENCE DESCRIPTION:

GATCTATGCA GTATACATTT TNCAGGCTGA AATTCAAGGG GAATCATTCT GATTATNCTT 60
ACTACAAATG GAGATGGCTA TTATGAAACA GCATGAGCAT GAGCCTTTNA TCTNTNATAC 120
TTAGTGATAT ACTTTGCTTG AAAATCACTC AGCAAAGTAG TTCACATGAT GTGTTATCAT 180
ATTTGANGTG TGGNTTNTCT CAAAATCATT GNCTTTAAGG NGCTCATTNC TGAN 234

SEQ ID NO:4410

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05240

SEQUENCE DESCRIPTION:

GATCTNTTTG TATGTNACGT GTTAAGGGCT TGTTTGGTAT CCCACTGAAA TGTCTGTGT 60
TGCAGACCAG AGTCTGTTA TGTCAGGGGG ATGGGGCCAT TGCATCCTTA GCCATTGTCA 120
CAAAATATGT GGAGTAGTAA CTNAATATGT AAAGTNGTAA CATACATACA NTTAAAATGG 180
ANATGCAGAA A 191

SEQ ID NO:4411

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05241

SEQUENCE DESCRIPTION:

GATCACCTGA GCTGCCTCAG ATTCCATTTG GTCCTCTCCT TCCTGGAAGG CTCCTTTTA 60
TGTTTTGTTT TAATCCCAA TGCTGAATG TTTTGCAGTG TGTAGGGGTT TGAGCCCTT 120
GTTTATTCTC CTCCTTTTT CCTCCGCTT CCTCTCCAT GAAGTGATTC TGTTGACAA 180
AATGTATACT GCGCGTNTC TTCCTGGTT TATCTGCAGA AATNNTCTG GGCTTTTNTC 240
GGTGTAGAT TCAACACTGC GCTAAAGCGG GGATGTTCCA TTGAATAAAA GAGCAGTGTG 300
GTTTTAAA 308

SEQ ID NO:4412

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05242

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGACACN CAAACCCAGC 60
 CACCAATTTT ACTTTAGGTA AACTTTTATT TTCAAGCTTT TGTTGGTGTT GCAAGTGTA 120
 ATCTGTTTAA TAAAATGTTC TATAAATATA ACCACTATTC CTTGTAAGCT ATTTAAAATA 180
 AATTTTAAAG TCTTTCAGT AAACACCAAA 210

SEQ ID NO:4413

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05243

SEQUENCE DESCRIPTION:

GATCTGAATT TAGGNACATT TCCTTTTCT GTGGGAATCA CAAGAGTTTA TCCACTAAAA 60
 AAAGATATGT AAAAAAGATA CTTTCCAGCA CATAAATAAA GGCTGGAATT TTACAACCTG 120
 ATGTATATAT TAGACAGTTC TAGGATGTTA GTTCCCTNCA TNCCAGAGCT ATGCTTGTGA 180
 TACAGCCCCT TTTCTTATAA AGTCAGTTAG ANGGACTTCC TTAACAATGA CTATTATAAT 240
 GNCTTNCTTA AAATACAGTT TTGTATTCTG TCAATGCAAA TATAAGACAG GTTGTGCCNT 300
 AATCATGTAN CANGNNTATT TTGNAGNTTT ACATATN 337

SEQ ID NO:4414

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05244

SEQUENCE DESCRIPTION:

GATCAGCTAG CTACCTTCTA CTTTCCATTT TTCAAGTGGA TTGTTCTCTT AATTTGTATA 60
 TAACCTGTTG TCTAAATTTT ATGTACAGTC TTTTATAATA AACCATTCCT CTATATGAAA 120

SEQ ID NO:4415

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05245

SEQUENCE DESCRIPTION:

GATCTGGCTC ATCCATCTGC ACACTGACCA CGCTAAGAGC TGTCTGCAGT GATGGAAACC 60
 TTCTCTAGCT GTGCTGTCTT CTATAGTGGC ACCAGCTGCC TGTGGCTACT GAGCACTTCA 120
 ACTGTGGCTG CAGAGACTAT GTTAAATTGT ATTAAATCAT AATTAATTGA ATTGTAAACA 180
 AAAAA 185

SEQ ID NO:4416

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05246

SEQUENCE DESCRIPTION:

GATCTTAAAA TTCGTTTGCC TTTTAAAGC TATATTAAAA ANGTATTGTT GAATCAAA 58

SEQ ID NO:4417

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05247

SEQUENCE DESCRIPTION:

GATCCACAAG ATTNAGAAAA TATTATATAG TTAGATAATA ACATTCTTGT CTAATGATAT 60
CCNANCTNGT TACAAAATTN TTAAAACTT AAATAAAAAC ATGCATCTN 109

SEQ ID NO:4418

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05248

SEQUENCE DESCRIPTION:

GATCCCTCTA CAGAGCTTCC CTGACTCATT CTGAAGGAGC CCCATTCTTG GGAAATATTC 60
CCTAGAAACT TCCAAATCCC CTAAGCAGAC CACTGATAAA ACCATGTAGA AAATTTGTNA 120
TTTTGCAACC TCGCTGGACT CTCAGTCTCT GAGCAGTGAA TGATTCAGTG TTAAATGTGA 180
TGAATACTGT ATTTNGTATT GTTTCATTG CATCTCCAG ATAATGTGAA AATGGTCCAG 240
GAGAAGGCCA ATTCCTATAC GCAGCGTGCT TAAAAAATA AATAAGANAC AACTCTTTGA 300
GAAACANCAA TTTCTACTTT GAAGTCATAC CAATGAAAAN ATGTATATGC ACTTATAATT 360
TTN 363

SEQ ID NO:4419

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05249

SEQUENCE DESCRIPTION:

GATCACATTC AGGATAAGTG TACAGAAGAA AATACGGGTG TTTACTCTTT AGGGAAGTGG 60
AAACACTCCC TGCATTGATG TACATTTTAA GAATGGCACT TTGATACAT GTTATCATAA 120
AGGTGCTTAA TAGAGCTGAA TTAAAGTTTT TCAAATCTGT AAACANNGCA AAAANGTAAA 180
TTGTAGTCAT TTGATTATTT TTAAATNGG NGCTTTATAT TTNGTNTCA CTCAGAGTAA 240
AAGCTGCAAT TTATTGTNCA CCCAAA 266

SEQ ID NO:4420

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05251

SEQUENCE DESCRIPTION:

GATCAAAGCA ATTTACAGAT TCAATGCTAT TCCTGTCAA CCACCTATGA CATTCTTCAC 60
 AGAACTAGAA GAATAAACTA TTAAGGTTT GTATAAGTT TAAA 104

SEQ ID NO:4421

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05252

SEQUENCE DESCRIPTION:

GATCTCAACA GTGTGGGGTG AACAAGAAGA CTGTATCTTC AGCCTTTTTC CTATAATCAT 60
 GGATGATTG GTCTTATTCA AAAGGACCGC ACATATTAGT ACTCTTAAGA GCATCTTCCA 120
 AGACTCCAGC AGNGAGCATT TAGAGAGTGT GTTGTCTTCC AGAGTCATGA ATGATTTTGT 180
 TTAGCTATCA GTCTACTAC CTCTAAGGAC ATTCATAGC AGCATCTCTT GAGTTGCCTG 240
 CATCAGTGTG GTGGTN 256

SEQ ID NO:4422

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05253

SEQUENCE DESCRIPTION:

GATCTGAATA TAATCTGGT AAACAGCTGT CTTCAATTTT NTCCTCTAAA GAACTTAATT 60
 CATTGTATAC ATAAAATATA AGGAAATCTT TGTACTATTT TACAGTAACC ACAATCTAAA 120
 TATTACATA TACCCAAAAT TANCCTATGC TCATATATTA GGATGTGAGA NTATCATCTG 180
 TTTATGGACA CATGAAACCT CCTAATGACC TGGAATTGTT AGANTATNTG ACTTTTATA 240
 TGCAAAGTTT TTCGN 255

SEQ ID NO:4423

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05254

SEQUENCE DESCRIPTION:

GATCCCCGGT GGTTTTGTGC TCAAAATAAA AACTGATTAA ACCTTTGTGG CTGTGAAA 58

SEQ ID NO:4424

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05255

SEQUENCE DESCRIPTION:

GATCCTTTTC TTCTCTTATA AATCATCCTC TTAATGAAAA TTAGCCTAAC AAAAGTTTGG 60
 AGACTGGAAT CCTACTTTGA GCCACTGACT TGAAATAACT CTTTGGCAA GTTGCCTGAC 120

ATCCTGTCTT ACCAAGGTGG CAGGTTTGA TTTTACTGC TTTAAACATT TTTNTTTTTT 180
TAACCATCTT NANCCAAATT NATCATATNN GNGGTNGGCC TANCAGGNTT TTNN 234

SEQ ID NO:4425

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05259

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCAGCCTC CCAAANTGCA NGGTATTACA GNCANGAGNT TCTGCGTCTG 60
GCAATAATGT AACTTTGAAG CTTAAAAATT AATCCCAGTT TGTAGCAATA ACAGAAGACT 120
ATCTACAACG GAAGAAAGAA GCAACTGCCT TACAGTTCTG TAAAGANTTG GCAAGAAAAT 180
AAAGCCTATA GTTGCCGAAA 200

SEQ ID NO:4426

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05260

SEQUENCE DESCRIPTION:

GATCTAGTCA TCTTCTGTAG CTACATAGTA CTCCTAATGT TAAGATTACC AAATTCAGCA 60
ATAAGCCAA AATCAAACT GAAA 84

SEQ ID NO:4427

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05262

SEQUENCE DESCRIPTION:

GATCATAAAC CAGTGNATC AGACCTATGT GTAATAAGAC TCCTGTTAAT AAAAAATAA 60
AAAGCTAAAA GCAA 75

SEQ ID NO:4428

LENGTH:424

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05263

SEQUENCE DESCRIPTION:

GATCTCAAAC TTGTCTTAAA TCAACAACCT TCTACTCATG TTAATGTCTT GATTAAATAT 60
CACAATGCAA AATACACATT AAGTAAAAGA ATTCCAGCTG GTAAACATGA CCTGGACATT 120
TGTAAGAATA TATTAAATAT ATGTNCACCC ATTATGTTTT TAGGTAACAG GNGGNNAAT 180
GCANCNAAT TTTTTTCTC TTGAAAGGCA CTGTCATTTA ANCATAAACC TGGAGTACTC 240
GAAATAGAAT TCAGGTTTAC ANGATGAAAG CGTGTGGAGA AGTGTGAGAT GGCAGTGGNA 300
GCATGTGTGT TTCTAAAANG TAAANTCTC AAGGAAACCA NGANATGGCA TGCTTTTACC 360
CATCTTNCCT TAGTGAAAAG NGTGCTTCAG GTTTGANATT GTTTTAAGAA AGNTAGCCGG 420

GNTN

424

SEQ ID NO:4429

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05264

SEQUENCE DESCRIPTION:

GATCTGCTCC CTCTCGCTCT CTCCTCCAC TACTTTTGG AACAAAGTGA TGGCAGAATG 60
CGGTGGTGGT GGGGGTCTTT TGTACTGTTG GATTAATAAA ATGATTNAA ATTNCNNNTA 120
AA 122

SEQ ID NO:4430

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05266

SEQUENCE DESCRIPTION:

GATCAGTATA ATTTTNNAAA GTTACTTTGT NAGAGGCACA AAAGGGTTTA AACTGNTTCA 60
TAATAAATAT CTGTACTTCT TCAAA 85

SEQ ID NO:4431

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05267

SEQUENCE DESCRIPTION:

GATCACGTAG ACATGTAACC CAGCAGCAGT TTGCTTCTGT TGCCACTGA TTAATCAGCC 60
TATGTGCCTG ACACGGTCT TGCAGTACAA CTGNAAGCCA AAACAAGGTG GAAGATGTCC 120
TGAATTAAGA TGTTTTACC ACATTGTATT ACAGAGACAG CCAATAAATC TACTATTTGA 180
TTTCAAA 187

SEQ ID NO:4432

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05269

SEQUENCE DESCRIPTION:

GATCTTTTAT TTNTGAAACA CTCAAACACC TTACAAAGTG CTGAGTAGGT AATAGTGACC 60
CAACTGTTTT GCTAAATGAT TATTTGTTTA AATCTGTACA GTTTAAGTG TTCACTTATA 120
CAAAGAGTGT ATATACTTTC AAATAATTNA AAATGCTTTA NATTATNNGG CTAGAAATG 180
CNGTTTTNAA TAAATGTGAA TNTNTNAAAA N 211

SEQ ID NO:4433

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05270

SEQUENCE DESCRIPTION:

GATCTGTTGT TAGGATTCTA GTTAACACTT TTNTTTTAA AACTAAGGA CAAATGAACA 60
AA 62

SEQ ID NO:4434

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05271

SEQUENCE DESCRIPTION:

GATCCCAGGG GAGGGGTCTC TCTCCCATC CCAAGTCATC CAGCCCTTCT CCCTGCACTC 60
ATGAAACCCC AATAAATATC CTCATTGACA ACCAGAAA 98

SEQ ID NO:4435

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05272

SEQUENCE DESCRIPTION:

GATCGTATCC CGCTGACACA GAAGGNTGCC GGGTGGGGGG AGGGCACCCA TGAAATTCAA 60
AGAAAAACCT AAGTGTGGAT GTTCAGAATT TTGGAAAAAT GTCAGTGAAG TGATTGAAAG 120
AGTGCCTGGC ATGCAAGGNT AAGAGGTTCT TTACATAACA TTCCTAAAT GCTTAATAAA 180
CGTTTGTTGC ACTTGTTTTT GACATTGCCA ATGGGGTTTG AACCAGTGCT CTCTCTAA 239

SEQ ID NO:4436

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05273

SEQUENCE DESCRIPTION:

GATCTGCAAT GACTGGAAGT TGCCGGTGCC TGGGGTGCCT TTCCCCCAGC CAGGGTCCAA 60
AGAAGCTTGG CTGGGGCAGA AATAAACCAT ATTGGTCGGA AA 102

SEQ ID NO:4437

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05274

SEQUENCE DESCRIPTION:

GATCTTCTTT TGGGAGGATT TGATGTAAGT NACTGACAAG CCTCAGCAAA CCCAAAGATG 60
TTAACAGTAT TTTAAGAAGT TGCTGCAGAT TCCTTTGGCC ACTGTATTG TTAATTNCTT 120
GCAATTTGAA GGTACGAGTA GAGGTTTAA GAAAANTCAG TTTTGTNCT TAAAANTGCA 180

TTTAAGTTGT AACGTCTTT TTAAGCCTTT GANGTGCCTC TGATTCTATG TAACTNGTTG 240
CAGACTGGTG TTAATGAGTA TATGTNACAG TTAAAAANAA AAGTTGGTAT TTTATANGCA 300
CAGTCAATNC TNATGGTAAC TTTTGGTNGT CTN 333

SEQ ID NO:4438

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05275

SEQUENCE DESCRIPTION:

GATCAATGTT TCAGCCCTAG ACTGCCCAAG GAGTATTATT AATTATTAAT AAATGAATTC 60
TGTGCTTTTA AA 72

SEQ ID NO:4439

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05276

SEQUENCE DESCRIPTION:

GATCAGATTA TTTTACTACC AACAGTTATA GTTTGAAAGT CCAACTGTAT TAATTGACTG 60
ATAATATGAT AATATAGAGA TTAAATTGTT TGTNTTCAAA 100

SEQ ID NO:4440

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05278

SEQUENCE DESCRIPTION:

GATCACAAAG AGCAAACAAA TGTCAATATC TCTTATGAAT GGTGAAAAAA AGGAATTAAT 60
CGATGCAAAT AAACTTTCA CAGTATTACT TTAAAA 96

SEQ ID NO:4441

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05279

SEQUENCE DESCRIPTION:

GATCTAGCAA GCCATGGCGA CAGGTAGCAT TTNTAAGATG NTGNACAGGA GCAGNATTAT 60
CCCCAAAGAT ATTACAGGGT AGACACGTTT TAACTAAAAT CAATCAAGNT AACTTN 116

SEQ ID NO:4442

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05280

SEQUENCE DESCRIPTION:

GATCTGACAT ATATCACCTT CTGGGNTATT TACTCATTGT GCCAGGACCT GGCATTTTCA 60
 TGTGCCTTTG ACCAAGTGTT CAGAATTGTC TTGNCTCTAA CCTGGAGAGC TTCTTAAGTG 120
 ATGCCCCCTC ATGGAGCTTC TATGACAGTG AATAAACTAT TAATTGAAGG AAAATGTTAT 180
 AATTAANGTA TCTATTTGCT GCATTGTATA TGGATTAANT GNTAAAAAAC AAGTAATCTA 240
 CCCTCAGAGC CATGTATTG AGAATGCTTT CAATCATATT TNCCTATGNA CTTTTTTTTT 300
 ATAAACTTAG TTTTANGCCT ATGTTGTAAA ANTGGGAAGG TTNGTAAACN TATGTTTGGN 360
 AAAANTAGGG GAAATGTNGG CTAAANTTN TTTTNCANTT ATNTTNGTTT N 411

SEQ ID NO:4443

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05281

SEQUENCE DESCRIPTION:

GATCTATCTG GGGGTCTAG TGTACCACAA GCTGAACCTG AAGATTGGA AAAATGTTTC 60
 TAATTAAATA AAACAGAGCA AAAAGACAAA 90

SEQ ID NO:4444

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05282

SEQUENCE DESCRIPTION:

GATCTACATT TAAGTGAAAA AATTAGCAGT ATTTGAAAGC TCAGTTTNAA TCATTGTCTT 60
 AACTTCAGAT ACAAATAACT GAACAGAAAG TTTTAACCTT TAATATCTCA TGTNCTGTTT 120
 NTTATTAGT ATTTTCCTNT ATGTTAATTC AATTATATAC TTCTGAATGG CACCTTACTT 180
 TTTGGAAACA AATCTTCTGT TATTACAAA ATAATAATTT TTANAAAAACA TTTAAAAAAA 240
 ATCCAAAGCT GCTCTCGATA ATAGTCAACA TTTGCATATA TATGGAATTT CTTACTTTNT 300
 TTCTCCCAAA CTCTATTTAA TAAACTNATT TTAATGGTTA AA 342

SEQ ID NO:4445

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05283

SEQUENCE DESCRIPTION:

GATCACAAAA ATGTATTTTA TAAATGTTC TGTACAATAA AGTTACACCT CAAAGTGTA 60
 A 61

SEQ ID NO:4446

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05284

SEQUENCE DESCRIPTION:

GATCATTATC AGTAATTTCA TAGCAACTGT TCTAGNGTTT TGNGTTTTTA AAACAGAATT 60
 AGGAATTTGA GATATCTGAT TATATTTTTC ATATGAATCA CAGCTGTTGA CAATGTCCCA 120
 TATATTTAAG AAATTATATC ATACTGATAC TATTTGTAAC ATTTTGATTG GATTTAATCT 180
 CCAGGGACAG AAATAATTCA TTGGTAAAGN GTAATAATGC GTTTTTTAAA AATGCTTTGA 240
 GAGGTAATTA CTTGCATATG AGAGAAATAA AACATTTGGC ACATTGTTTA CAGGTGTGAA 300
 A 301

SEQ ID NO:4447

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05285

SEQUENCE DESCRIPTION:

GATCAGACCG AGAAGCAGGG TGAGAGATTC TAACGACTGG ATGCTGCTAG TAACACATTG 60
 TTTGTATTGC TTTACCATT TTAAGTGTGA GATTTGAGAT GAACATACAT TTTGCTTTTT 120
 TAATAAATGT TTAAGAAG TCCACATAAG AAA 153

SEQ ID NO:4448

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05286

SEQUENCE DESCRIPTION:

GATCACTACA GTGAAGTATT ACAGTTGTAC AGTTCCCAGT CTGGCCTTGG CTTGCTCGGA 60
 TAAACCTTG TATGTATTTT GTATGGCATA GATTCTATAT TGTAATGATG TCCTATGCAA 120
 AAAGAAAAAT TAACGAAATT GTAAATTTTA TTGTTTAAAC GTGTATGCAT GTTTAGTGAC 180
 GTTACATTT TGAAATAAAA TTTATGATTC ATAAAA 216

SEQ ID NO:4449

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05287

SEQUENCE DESCRIPTION:

GATCTGGAAG CGTTTGTAC CGATTATCCA CAGCAAAACA AAAATAAGCT TTTATTTTAT 60
 TAATAATTTT GTTCTCTTG TGCCCAATCA AATCTTTTAG GAACAACTG CAAGAAAAGC 120
 TAAGAATGTT TTAGAGTGAA CTAAATACAG ACATTGCTTA CTTGTTTTGA AA 172

SEQ ID NO:4450

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05288

SEQUENCE DESCRIPTION:

GATCTCCCTG TGGCAGCAGG CATGGAGAGT CAGGGCTGCC TTCATGGCAG TAGGCTCTAA 60
 GTGGGTGACT GGCCACAGGC CGAGAAAAGG GTACAGCCTC TAGGTGGGGT TCCCAAAGAC 120
 GCCTTCAGGC TGGACTGAGC TGCTCTCCCA CAGGGTTTCT GTGCAGCTGG ATTTTCTCTG 180
 TTGCATACAT GCCTGGCATC TGTCTCCCCT TGTTCTGAG TGGCCCCACA TGGGGCTCTG 240
 AGCAGGCTGT ATCTGGATTG TGGCAATAAA AGTACTCTGG ATGCTGAAA 289

SEQ ID NO:4451

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05289

SEQUENCE DESCRIPTION:

GATCTCTTAA AAATACCACA GTTTGTATTT TTCCTTTAAG GAGTAAAGAT TTGCCTTTAA 60
 ATAACCTGGT ATTTTCCTGG CTTTCGTTTA ATACAATAGA AAATAAAGTA TTACACCGAA 120
 A 121

SEQ ID NO:4452

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05290

SEQUENCE DESCRIPTION:

GATCAATGTG ACGGCAGGGA AATGTATGTG TGTCTATTTT GTAAGTGTAA AGATGAATGT 60
 CAGTTGTTAT TTATTGAAAT GATTTCACAG TGTGTGGTCA ACATTTCTCA TGTGGAAGCT 120
 TTAAGAACTA AAATGTTCTA AATATCCCTT GGACATTTTA TGTCTTTCTT GTAAGGCATA 180
 CTGCCCTGTT TAATGTAAAT TATGCAGTGT TTCCCTCTGT GTTAGAGCAG AGAGGTTTCG 240
 ATATTTATTG ATGTTTTTAC AAAGAACAGG AAAATAAAAT ATTTAAAAAT AAA 293

SEQ ID NO:4453

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05291

SEQUENCE DESCRIPTION:

GATCTAGGTC CTTCTATCTC GTCCCTCTAC AGATGTATTT TCCACTTGCA TAATTCATGC 60
 CAACACTGGT TTTCTTAGGT TTCTCCATTT TCACCTCTAG TGATGGCCCT ACTCATATCT 120
 TCTCTAATTT GGTCCCTGATA CTTGTTTCTT TTCACGTTTT CCCATTTCCC TGTGGCTCAC 180
 TGTCTTACAA TCACTGCTGT GGAATCATGA TACCACTTTT AGCTCTTTGC ATCTTCCTTC 240
 AGTGTATTTT TGTTTTTCAA GAGGAAGTAG ATTTTAACTG GACAACCTTG AGTACTGACA 300
 TCATTGATAA ATAACTGGC TTGTGGTTTC AATAAA 336

SEQ ID NO:4454

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05292

SEQUENCE DESCRIPTION:

GATCTGCTGC AACCATTATC TTNGTTCTTG AGTTCATCAT GCATTTAAAA TGAGATGCAA 60
 GAGCATTAG CATACCATGT AAATATGGAC CTTTAAAAA TAAATACTA TTGGAAGTGC 120
 TTTCAACTCA GCCACATCTT AGCTATTAGT TCTTTGTGTT GTCTTATCAA AGTTTAATGG 180
 ATACAGTTCC ACAGTTGTTG ATGTGTTTGT GTGTATATTC GATTNNNNNA AAGATGGTAG 240
 TAAGTCAATA AA 252

SEQ ID NO:4455

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05293

SEQUENCE DESCRIPTION:

GATCATACCA CTCCACTCCA GCCTGGGCAA CACAGCGAGA CTCCATGCTC CCCCCAA 57

SEQ ID NO:4456

LENGTH:564

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05294

SEQUENCE DESCRIPTION:

GATCAGGCTC TCCTCATGCT GTTTAGTGAT GGCACGTGCC AGGTGAACTN CTACGGGGAC 60
 CACACCAAGC TGATTCTCAG TGGCTGGGAG CCCCTCCTTG TGACTTTTGT GGCCCGAAAT 120
 CGTAGTGCTT GTACTTACCT CGCTTCCAC CTTCGGCAGC TGGGCTGCTC TCCAGACCTG 180
 CGGCAGCGAC TCCGCTATGC TCTGCGCCTG CTCCGGGACC GCAGCCCAGC CTAGGACCCA 240
 AGCCCTGAGG CCTGAGGCCT GTGCCTGTNA GGCTCTGGCC CTTGCCTTTG TGGCCTTCCC 300
 CNTTCCTTTG GTGCCTNACT GGGGGCTTTG GGCCGAATCC CCCAGGGAAT CAAGGGACCA 360
 GCTTTACTNG AGTTTGGGGN CGGGNTTGTT TTCGNTGGNT TCCTACCCCA TNTCCAAGAT 420
 AAGCCTTNAG CNTTAANTCC CANGNTAGGG GGC GTTATTT NATGGACCAA TTTTAAATTT 480
 ATTNTAAGAA ANTTTNTTTA NTTGGGGATT TTAAGCCCAA AGGGGGGCC TCNTCCTNAG 540
 GTNANAAAAAN AATTTTTTAA GAAA 564

SEQ ID NO:4457

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05295

SEQUENCE DESCRIPTION:

GATCTTTATT TTTGATTAAT TTGTTCTGAT TTTTGGTTT GTTTTTTAAG GAACTGTAAT 60
 GAACAAATGT CAGGATATCC AATGCCAAAT AAAGATGTTG TATTTATTTA AA 112

SEQ ID NO:4458

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05296

SEQUENCE DESCRIPTION:

GATCACACCC NGGTGAACCC ANGGTGCTAA GANTGAAAAT AACCTGGTG AAATGTACAA 60
 NTTAAAGACA AAGAACTACA TGTGAAGATA GAETTGCTTT CTATTTTNA ATCAGTAGTA 120
 GTACTGTTGC TGAATAATAC TAGGTTTTNN CN 152

SEQ ID NO:4459

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05297

SEQUENCE DESCRIPTION:

GATCTGGTGC TGCTTTCAGA TGTTTATCTT TTATTTTTTT CCCTTAAGCT TTAATCTTCG 60
 TCATTGTCTT AAAGTCAACT GGTGTTTCTT GTTCATTGAC TTTGGTACGA TGGTGCTTTG 120
 CAAGGATGTA TTTATGTTAT AATGGCCAAC ATTTGGTCAG CCCTTGCCA CTTATTCAC 180
 TCCCTCCNTT TGTAATAA GTGCTTTAAT TATAAACTGT ATAAAAATAC CTTGTATAAA 240
 CCCCTTTTTT GATTATTACA ATAAATAAGC TGAATTGTAA CAAATGAAAT TTGATTTTTG 300
 TAATAAAACA GTGGAAGT AAA 323

SEQ ID NO:4460

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05298

SEQUENCE DESCRIPTION:

GATCCTTTTT AGTTAATACT ATGACAGTAC TAAAAATATA TGAATAACAT TTCAGATACC 60
 ATTATATTAA AATATTTGTG TATGTGTACA AAAGCGTTGA TAAATACTAA TCTTTAAAGT 120
 TTGTGGAGTT CCTTTATTTG TAATATATGT GCTCTTAAAA GCAATGGGAT GTGAAATTAT 180
 GAAAGTATTT TATTGTTTAT AGAAATAAAA AACACAGTTA CTTTGCAAA 229

SEQ ID NO:4461

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05300

SEQUENCE DESCRIPTION:

GATCTGGACC TAATGAATTC CTCAGAAAAT TCCCATGAGT CAGCTGATTT CAGTGCTGCT 60
 GAACTAATTN CTGTGTCTAA ATTTCTTCCT ATTTCTGGAA TGGAAAAGGA GGNCATTCTG 120
 AGCCCACTG NNNNN 135

SEQ ID NO:4462

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05301

SEQUENCE DESCRIPTION:

GATCTGGGTA AAGGACCATC TGGGGATTCT TTGTACTATT TTTCTTTCCG CAACTTTTCA 60
AGTTTCAAAC TATTTGCAA TAAAGAGTTT TTGTTTGTTA AA 102

SEQ ID NO:4463

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05302

SEQUENCE DESCRIPTION:

GATCACATGG CTAAGGTGGT GTGTGCCAGG TTTCTCCACT GTAAAATTAG GAATTTTCCC 60
TTTGAAATTA ACAAGAATCT TCCACTTTGA AGCTGTGTGA ATGTCTTATT CTAAAAATTT 120
TGCTACTGA TTTNANNNN CATCATCAAT GATTCTTGCT TATAACAGGT ATTAATGTTA 180
TGCTTGAAA 189

SEQ ID NO:4464

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05303

SEQUENCE DESCRIPTION:

GATCATGTTA ATTTAAAGCT TTATACACAT TGTTGTTTTT GCTGGTCTCA TCTTTGGTAA 60
TATGCTATAC CCCACTGCTG CCCGACACTG CCCTNTAGCT GCAGAGCTGG ATTAGCTGTT 120
GACCATTTGA TGCTGTTGTC TGTCTGGCAG GGAAGTGAATG ACCTGATGTC AGATTTAGAT 180
TCTTCCTGGG GATTACACAG CTATGAATGT ATTTGCTTCT AAAACCTCCC AAAGTGAATC 240
TAATCTTAAA ACTACAAAGT GTAAGTATTC TGAAATTGGG AAACATTTAT NTNAAATGCA 300
ATCAGGNAG TGTTGCTTTT TACAGCATAA TNAATATANG TNTCAANNAN NGTGGANGGT 360
NGTN 364

SEQ ID NO:4465

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05304

SEQUENCE DESCRIPTION:

GATCACTTGA TGTCAGGGAG TTTGAGACCA GCCTGGCCAA CATGGTGAAC CCCATCTCTA 60
CTAAAAATAC GAAAATTAGC TGGGTGTTGT GGTAGGCACC TGTAATCTCA GTTACCTAGG 120
AAACTGAGGC AGGAGAATCA CTTGAACCTG GGAGTTGGAG GTTGCAGTGA GCCAAGATTG 180
TGCCACTGCA GTCCAGCCTG GGTGATGAAA CAAGACTCTT TGTCTCAA 229

SEQ ID NO:4466

LENGTH:496

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05305

SEQUENCE DESCRIPTION:

GATCTCTAAG GAACTCCTGT TGCTAAATAT GAAGAGTATG GAACATTCAT ATAGTCTCTG 60
 TGAAGCATGG GGGGAGGGAA GACATTTCTN TTNCTTATAG GCTTTATGCT CAAATGTCAT 120
 AGTCTCCTTT CAAAGAATTG TGTTCGATTT TAAATGCACC CAGCTTAAGT AGAAGACATT 180
 GAAGGATGCA TTAATTTTCA GGAACATTTT TGGATTATGA AAAGATTCCC AATTGAAAAA 240
 ATTATTCAAC AAGTAAAAGC TAAGAAATTN CATTGAAATC ATAATGGCAG TTTAAGCATA 300
 AATTTGATAA ANAATAGCTG TGTACTACTA AATTAATTAG GAAAATTCNA TTCCAANCCC 360
 AAGNNGAAGG AGTCCANGGT GGAAATATCC GGTTTGGTTT TATTTGNNC TTAGGNTGAN 420
 GTTTTCCTTT GGTNAACCGN TTGNNTTTT TATTTAANAT NGNTTAATTA TTTTNGGTT 480
 AANGNTATGC CCCNTN 496

SEQ ID NO:4467

LENGTH:415

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05306

SEQUENCE DESCRIPTION:

GATCTTGGA GATATTAATA TCTGCTGGCC AGACCTAAAA AAACTGAAG GCCCAAGGAA 60
 AGTGACTGGA CTCACTGGAA AGTNTCTAAC AAATACTTTG GATTCCAAAG TATTTCCAAT 120
 ACCTTGAAGA TTCCTTTGAA AACATCAAAG CACAACTCA AATCTGCACA AGATTACAAA 180
 AGCACAATTT TGGTGTATT TTTAGANTNC AATACACAAA GCTATTGTTC ATTTCTNTCA 240
 GCAAGCATTT TCCTGGGTAG TAGTAATAGC TTAGGAATCA AATGCCACTT TTNTTTTCC 300
 TTTTTCAC TAGTTTGAAA TACCACAANT NACAGGTNAG TCAGTCCTCC CAGAGGNNA 360
 NGGNCAGTCC TAGGGNGGNA TCAACAGGNC TNGCAAGNCA AGNCCCACAA NTTNN 415

SEQ ID NO:4468

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05307

SEQUENCE DESCRIPTION:

GATCGCAAAT TGAAATATGG ATATTGTAC CAGGCTGCGT GTTTTCATT TTAAACACAC 60
 AAGATTTAAT TGAAAGGACA TCAATAATCA TAATTGTGTA TTAAACAGGT GGTTTTNTAT 120
 TAGTTTTCTN GTGTTTCAGA CTTTATGCAG CCATATAAAC TGTCTCTAG GCATGCTGTG 180
 ACATTTTAAT AAAAAGCAAA AGGAGCAAA 209

SEQ ID NO:4469

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05308

SEQUENCE DESCRIPTION:

GATCGCACCT TTTATACCAG AGACCTGAGG CAGATGAAAT TNATTTCCAT CTAGGACTAG 60
 AAAAATTGG GTCTCTTACC GCGAGACTGA GAGGCAGAAG TCAGCCCGAA TGCCTGTNAG 120

TTTCATGGAG GGGAAACGCA AAACCTGCAG TTCCTGAGTA CTTTCTACAG GCCCGGCCCA 180
 GCCTAGGCCC GGGGTGGCCA CACCACAGCA AGCCGGCCCC CNCTCTTTTG GCCTTGTGGA 240
 TAAGGGAGAG TTGACCGTTT TCATCCTGGC CTCCTTTTGC TGTGGGATG TTTCCACGGG 300
 TCTNACTTAT ACCAAAGGGA AAACCTCTCA TTAAAGNCCG TATTTCTTCT AAA 353

SEQ ID NO:4470

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05309

SEQUENCE DESCRIPTION:

GATCCTCTAA CACTGTACTA AAACATTTC AATAAATCAT TCTGACTGCG TTCATAAAAA 60
 CAAA 64

SEQ ID NO:4471

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05310

SEQUENCE DESCRIPTION:

GATCTATTAC TGACCGTATG ATGAGGCCAA CTTTTTNCC TTGTGGTTAG CAAGACTGCA 60
 AGAGATGGAA AAAAAGTAGT TTGAATGTTT TGTGTGTAAG GAGTATACCA TGAGATGAGA 120
 TGACCACCAA TCATTTCCTT GGGGGGAGGG GGTGTCTGCA CCNTAGAAA 169

SEQ ID NO:4472

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05311

SEQUENCE DESCRIPTION:

GATCACTTGA ACCCAGGAGT TTAAGTCCAG TCTGAGCAAG GCAGTGAGAC CCTGTCTCTA 60
 AACAATAAAA ATTAAATAA GTATTATCGA GAGTTCCTGG AGGGGTGAAA TTAAAGACTT 120
 TCAAAACTTA AA 132

SEQ ID NO:4473

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05312

SEQUENCE DESCRIPTION:

GATCACCAGG CTGCCAAGG GTGCTGTGCT CTACAAGACT TTTGTCCACG NGGNTCCTGC 60
 CAAGCCTGAG GGCACCCGTC AAACCTGGTAG CTATGCTTNG ATGCCTGTT GAGGCCATCG 120
 GACAGAGACT GGAGCCCANG TGACAGGAGA TGGTGATACC AGAAGTCAAG GGTGGGGTG 180
 GCGACACGGC CTCCCGAGGA AGAGGTCTGC TTGATGGTGA CTCTGCAGGA GACTCTGAAG 240
 TGACTGCTGG GAAACCCCTT GGGAGACCTN ACCTGNGGCC AAAANTAAAG TNNGCCAGCN 300

TCATGAACCG CATNCTATTT AAGGGAAA

328

SEQ ID NO:4474

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05313

SEQUENCE DESCRIPTION:

GATCTGGACA TGCTGTNACA AGAAATAGTG ACCTTGGGGA ATATGTACAG AAAAGACCTT 60
 TTTCTAAGAG TTGGGAGGGG GTGGGGGACT GTATAATGAA AAGAATTAGC TTACAAAAAA 120
 GAAATTGATA TTCAAAGTAT TTAGGCCAAA GCCAGTCAAA ATGCTTTCAT GATATTTTGA 180
 GATGTAAATT TTGTCTGATT TGTATTGTNC TTTTCATTG CCTTCTTAAC TTTATATGTG 240
 ACCTGAATTT TCCATAACTT GATGACTATA GATTGCACCT AGGCATTCCA ATAAAAGCCA 300
 ACCCAAA 307

SEQ ID NO:4475

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05314

SEQUENCE DESCRIPTION:

GATCGTAAAA ACATGTCTTA TGCGGAACCTT TCATGTCAGA TGCCTGGAGT GTGAAGTGTT 60
 CATTGGACAT TCCATTTTAC TGTTCTGAAGT ATGGACTTAC ATATCAAATT AAAAGGCTCT 120
 TTTGTTCTGC AAA 133

SEQ ID NO:4476

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05315

SEQUENCE DESCRIPTION:

GATCAACTGT CCTTAACCAC AGCAGCATGA TACGCTGGNT TACCCAATCG CTTGTAAGGN 60
 AAGNCAGAGA TGACGTTATC CTGACTGCTG AGATGAGCAG TTTACCCTAG GAGGNCCNAT 120
 TNGGACTATN 130

SEQ ID NO:4477

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05316

SEQUENCE DESCRIPTION:

GATCAGCCAC ACAACTGTTT TGTACATACT TATTTTCTCA TGCACITTTT TGTATGCAAA 60
 TAAAGCTATA AATTTACTCA TTTCAATAAA CTGGAGTGGC AGAAA 105

SEQ ID NO:4478

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05318

SEQUENCE DESCRIPTION:

GATCTGGGAC AGANTTCACT CTCACCATCA GCAGTCTGCA ACCTGAAGAN TTNCAACTN 60
 ANTACTGTCA ACAGAGTTAC AGTGCCCGT GGACGCTCGG CCCAGGGACG AAGGTTGGAC 120
 GTCAAACGAA CTGTGGCTGC ACCNTCTNTT TTCATCTTN 159

SEQ ID NO:4479

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05319

SEQUENCE DESCRIPTION:

GATCTGAAAA GAAGGTGAAT ATTTTGCACT TTTGATACTC TTAGGAACAA ATAATTATT 60
 TGGCAAATG TTTNTTTTT ATGTTTGGG TGTTGTTTT GTTTTTGAC TTTTTTGTA 120
 TTGTGAACAG GCACTGAAGC TGATGTTATT TTAAGATTAC AGAATGAAA 170

SEQ ID NO:4480

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05320

SEQUENCE DESCRIPTION:

GATCATGTAA AATTACAGTA CTCAACCCCT CTAGCAAAGT ATTTGGNTGA AAAATAAACT 60
 AAATGCCTTT AAA 73

SEQ ID NO:4481

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05321

SEQUENCE DESCRIPTION:

GATCCGCAGA GGGTGGTTGG GATACACCGG ATACCTCTGC TCTCATTGCT TGTTTCCAAA 60
 TGCTCTATGG ACATTGTGT GCTAAATCCT ATTAAATAAA AAAGACGGGT TAAAACCCAG 120
 ATGCTGTAAA 130

SEQ ID NO:4482

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05322

SEQUENCE DESCRIPTION:

GATCAAATTG AGAGACAATA AGTGTACATT GTTGAATAAA AAATTTTAAA GTTAAA 56

SEQ ID NO:4483

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05323

SEQUENCE DESCRIPTION:

GATCTTGAGA GTATGTTCTT ACTCATTTCT GTAATTGCAG TAGTGTAGTC ATCTGCATAT 60
AGTTTAAATA AATGCATGTT AAAATTAA 90

SEQ ID NO:4484

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05325

SEQUENCE DESCRIPTION:

GATCACGCCA TTGACTCCA GCCTGGGGGA CAAGAGTGAA TCTGTGTCTC ACCAGAAA 58

SEQ ID NO:4485

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05326

SEQUENCE DESCRIPTION:

GATCTGGTGA CTGTNCTCTC CCTGTTTTCC TTTCTTTTG GGTGTTTGAG GAGCANNGCT 60
TAGCTTGAGA CACACACAGA CACTGTGTAC TTCAGTNAAG GGCTTAATAN ACAGN 115

SEQ ID NO:4486

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05327

SEQUENCE DESCRIPTION:

GATCATTTCT ATGTGTGTGG GTAATCTGGT CAGTAAGATT GAGACTTAGT TAAGATTCCC 60
CTTGAAATT CCTTAATGTT TATTAGCTTC TAACTAGTGT TGTAAGTCCG ATGCCAGAAT 120
TTGGAGATTT GAGTTCTTCT TTTATGGCT TTTATTCAC GTGACTAATA AGCTTCCTAA 180
TAAATCCTTG CCAGACTTAA A 201

SEQ ID NO:4487

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05328

SEQUENCE DESCRIPTION:

GATCTAGTTC GTGTATACT GTTAACTCAT TTTACATTTT TTNCTTCGTT GAATGTTTAT 60

CAGATTATAA ATATAGAGGC ATTTCTNCAT CCTGTTAAT GTTTATTTTG TAATCATTGG 120
 AGTATGTGAA AAATTTTNGT TTGTTTGCT TTGGTCTCTA AGTAAACATG TTCAGCAAAG 180
 TATTTNTNTT TTNAAGAAAT AAATNGNGNT TTGTATGTCC TNCCTTTTAG GTTTGAGGCA 240
 AAGAGGAGAT GGGAANCCAA AGGCAACANG GGNN 274

SEQ ID NO:4488

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05329

SEQUENCE DESCRIPTION:

GATCTNTGCC ATGCAGAGCA TCTTCCAGAA GACCAGGACT CTGGGAGGCG AGGAGAGCTG 60
 AGCTGGGCCA CCTGGTCTCA GCCACCTGTT CTTGGCTCCC CAACAGACTC TGCACTGCAC 120
 CATGGGAGGC TCCTGGGATG TTTGGAAGAA GAAACGGGCT TCTCCTTGAG GGGGTAGTGG 180
 AGGGATTTT TCCCCAGCAG TGGCCTCTGA GAGTNNNTCA GTGCCTGGTG GGGCAGGGCA 240
 GGCCTCTTGG AGCACCTCCT CCCTGGNTCA GGGCCTGGAT GCAGGTGCCA AGCTCTCCAT 300
 GTGGTGCATG TTNGACCCAG CCACGTGGTG AN 332

SEQ ID NO:4489

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05331

SEQUENCE DESCRIPTION:

GATCTTAACT ATGAGTAATT CACTATCAAG AGCTAATTAT TTGAAAAAAT ATAAGATGTT 60
 ATGGAGCAGA TAGCTCAAGC AGTTAAAAGA AATTNTGCAA CTNTAATTCT NTTCTTATT 120
 TTAATACTAC TACTTAATAA ATAGTATTTG CTAAA 155

SEQ ID NO:4490

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05332

SEQUENCE DESCRIPTION:

GATCAAATCA GAGATTGACA GCCTGTGGAG GGTGCTGAAC TATACAGAAT TAGACACAAC 60
 TATGTCATTA TTTTGTGAC CTACTGNTCA GAATAAAAAC ACTTGAAATA TGAAA 115

SEQ ID NO:4491

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05333

SEQUENCE DESCRIPTION:

GATCCCTTCT GTTGGTGTCA TGTTGTAAAC ATTTCTTTCA ATAACTAAA GAAAAATTAT 60
 TAAAGGAACA CATACCTTGG GTTAAATAGT CTAGACTAAA AGATTGAGAA GTTACTTTCC 120

ATTGCTATCT ATTGATAATT TAGACATTGA GTTCAAATTG CCTTCATTTT ATGATAAATA 180
ATGATTTAAC TGACAAA 197

SEQ ID NO:4492

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05334

SEQUENCE DESCRIPTION:

GATCATTTTT ATTTTGTAAG TATTACCTAA CTTTACATAA ACTATATCAT AATAAACTAT 60
TTTTGCATCA CCCTTTAAA 79

SEQ ID NO:4493

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05335

SEQUENCE DESCRIPTION:

GATCTCCAAG CTGAAACTTA CACGTAAAA CTTTGCCTG TAAGAATTTG CACATGAATG 60
TTAATGGAAA ACACAAAACCT TAAGATGGCC CAAAACNAAA GCCACAAACA GTTCATCATT 120
TGGTGCTTAG TCTTTGTAAG GGCTCTCTGT GGTTGACTT ACTCCAGCTA CCGTTAGATG 180
AGGGCAAATC ACCTTAGAAC ATGTTCAATTT GATTCATAAC ANGGAAAATT GGGTCTATGA 240
TTTTTNGCCA ATCTTAGCCT AAAAGAAATT GCTTTAGCTT CTGGTCAGCA CTGATTAAAA 300
TGTGAATAGT GAAGTGGCTA TCCTAAACTG GTTTATCTCC ACCCACACTA TCATAGANTT 360
CTTAGGTAAT ACAATTN 377

SEQ ID NO:4494

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05336

SEQUENCE DESCRIPTION:

GATCAAACAC ACACACCTAT ACACATACAT ATTAANATGC AGAGGATTTT AAATAATTGC 60
AAATGTCTTG TGGCTGTTTT ATTTCTACAA AATTCTGTAA GATGTATACC AGAAAACATA 120
ATAAAGATAA GCTCAGTTCT TCATTGGGNA AAANTATTTT TAAGNNNNNN 170

SEQ ID NO:4495

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05337

SEQUENCE DESCRIPTION:

GATCTGTAAT GTGTCAAAGC ATTTTCACT TTTCAAATAA AGATACCTAT AATGAAA 57

SEQ ID NO:4496

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05339

SEQUENCE DESCRIPTION:

```
GATCAGAATC TNCCAAC TTT AGAGGTGCAA TGGAAGACAC TACGCTACTT GGTGAGCCT 60
GGTGAAGAAT GTATTAATGA GACTNCTTTG CATAAACTG GGAAGAAAGA GAAGACAGT 120
GGAGATGGAA GATGGTTTN TATATATNTN GGAAC TTTAG TTCCTCTGTA AGACGAAAGA 180
GGAGAGCTAT GTTNNTNTC ACATTGTCTG ATATATATNG TGTACCTGTC AGGTGAGTTG 240
ATTTAGACAN CATAGCTGAC CTTTATGAC ANGGCAGTTT GANTAGGGNC TATTGTAATA 300
CCCTCACACA TTATAGGGGC ATCAGAGNAT GGCCATGGNA GGGACAGTCT TACAGGGGGC 360
TTTANGNGN CCN 373
```

SEQ ID NO:4497

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05340

SEQUENCE DESCRIPTION:

```
GATCTGAAGA AGTTGCTGTT CTGAAACAGA AGTTGGAGCG ATGTCATTCT GCTGAGCTTG 60
CACTTAACGT AATCAGGAAG TAGAGGAAAG GCTATGNAGT TGATGATTAC GTCTCAAAGA 120
AATCCAAACA TGAGGAGGAA GAATGGACTG ATGACGACCT GGTAGAATCT CTCTAACCAT 180
TTGAAGTTGA TTTCTCAATG CTAAC TAATC AAGAGAAGTA GGAAGCATAT CAAACGTTTA 240
ACTTTATTTA ANANGTATAA TGTGAAAACA TAAATATAT TANNCC TTN CTATTGTTTT 300
CTTCCCTTT CACAGTAACT TTATGTNAAA TAACCATCTT TCAAAGGGC TANAANNAN 360
ANANNTNN 368
```

SEQ ID NO:4498

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05341

SEQUENCE DESCRIPTION:

```
GATCACATCA CCTCTCTGCC TCAGTTTCCC CATCTGTAAA ATGGGAGAAT AATACTTGCC 60
TACCTACCTC ACAGGGGTGT TGTGAGGATT CATTTGTAAT TTTTTTTTT TTTTAAANA 120
GNGTTTTAAN GNNTAAAAAN CAGTNAAATN 150
```

SEQ ID NO:4499

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05342

SEQUENCE DESCRIPTION:

```
GATCTCCATC ATTTCTTACA GGTTTCCTC CCTCAAGCAA TTCGACATCT CAAGTGAAGA 60
CATGGCCCT GAAGGGCAAT AAAGCTGCTA GTTTATTAAT ACAGTCAAA 109
```


SEQ ID NO:4500

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05343

SEQUENCE DESCRIPTION:

```
GATCTACAGG NCAAGGGAG GGAGCAAGCC CTAATCGGAT GGGGCACGGA CTGTCCACCT 60
TTNCTAATGT GTGTTGTCAG CCTGTGCTGT GGCATAGACA TGGATGNGNG GACCACTTTG 120
GAGACTGGGG TGGCCTCAAG AGCACACAGA GAAGGGAAGA TGGGGCCATC ACAGGATGCC 180
AGCCCCTGCC TGGNTTGGGG GCACTCAGCC ACGACCAGCC CCTTCCTGGG TATTATTCT 240
CTATTATTG GGNNGGNTG AAGAGGCATC CTGCCTGGNT GGGNCAGCCC CTCAGCCCC 300
TTNTNCCCTN CCCGN 315
```

SEQ ID NO:4501

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05344

SEQUENCE DESCRIPTION:

```
GATCAGACTG TTGCTTTCGC ATGNTGTATG TAGTGTCTCA TGNCCTGGAGT TTGCTTTGTT 60
TTATAGTATC TGTACTCCTT GTATTTTCA AGAGCTATTT TGTAACAGA TGATGTATTT 120
CTCCATTGAA AACACAATAA AAAAAANCA GCACAAA 157
```

SEQ ID NO:4502

LENGTH:397

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05345

SEQUENCE DESCRIPTION:

```
GATCTAGTCT TACTTTCAG TTGNTGTGA GGTCCATTCT GTTACTAGA CGGATGTAA 60
TAAAACTAT GCGAGCCTGA NTGANTTCTC AGCCAAATTT AGTCTGTNT CTCATCTTGA 120
TTGGNTTAAT TCCAAATTCT AAAATGATT CANTNCACAAT AGCTCTAGGG GATGANGAAT 180
TTGCCTTACT TTGCCAGTT CCTAAGACTG TGAGTTGTCA AATCCCTAGA CTGTAAGCNC 240
TTCAAGGAGC AAGAGGCGCA TTNCTCCGT GTCATGTAAT TNNCTAAGG TGCTTGGCAG 300
CACTCTGTAC CCTGTGGAGT ACTCAGTACC TNTGGTTGA NGTTGCTGAC AAGACCTGAA 360
AAAAATCCCT TAAAAANNA ACCCTTTAAG GTGTGGN 397
```

SEQ ID NO:4503

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05346

SEQUENCE DESCRIPTION:

```
GATCAGACTT GTTAAGTATG CCGCAAGTAA GAGCTAATTC ATTCATTCCA TGTNTGCCAC 60
```

TAAATAAAGA GATTGAGCAA GAAA

84

SEQ ID NO:4504

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05347

SEQUENCE DESCRIPTION:

GATCTNAACC CCAGACATCA AGGATAACAT CGTTGCTCAG CTGAAGCAGC TGTACCGCAT 60
 CCTTNAACC CAGGAGAGCT GGCAGCCCAT GCAGCCCACC CCCAGCATGC AACTGCCCCC 120
 TGCCCTGCCT CCCCAGTAAT TGTNAATGCN ATCTTCTTCC TTCTNTTTTT TATAATATTG 180
 TACATATGGA TTTTNNAGN GNTTAGATTT AACCAGCTTT TAAATCTCTC TTTNNTCTAA 240
 CAGTGTTAGA AGTTTGTNAT TCTNCAAATA TGCCTAGATT TAAAGCTGNT TTGAATTTAT 300
 GGNAAAAAAA AANAAN 316

SEQ ID NO:4505

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05349

SEQUENCE DESCRIPTION:

GATCAAAGTG TTAGGGGAAA AAAATTCCAA AAGTAGTTAC AAGCTATATC AATGTCAAAG 60
 TAAATNCACT TCATCAAAGC TAAGAAGTCA CAGGAATTGT NCTCAGGTTT TAAAAAAAT 120
 TTTNCCTGAA TTCAGGAAGT GTCTTCTGAA TAGCAGCTAG CCANNTAAAG CGGTGTGTGT 180
 GTACTGCAGC TGTAGGTGAA CTTAAAAATA ATAATAAA 218

SEQ ID NO:4506

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05350

SEQUENCE DESCRIPTION:

GATCAGCCAG TTACCTTCTC CATTGTNNTA GTTCTGTCAC CCATTTGTC AAGTGACCTC 60
 TCATCTTCTA TAACTAATA CAGGAATTCT TTCCAAAGCA ATGTCTAAAA ACTCTTTTTT 120
 TTAAAGTAAC AGTTTGGTAT GTTTATTGTA GATAAATNAT TTTNAGGCC TTCATTTTAG 180
 CTAAGTTTAG AATTNATATT AGGCANCTAT GATTGAGTG GTTATNCATT GAGTAANTTT 240
 CCACTATAAA GAATTTNATT GANCANTTGT TAAAGNATNN TGGTAATGCA TGGNCAN 297

SEQ ID NO:4507

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05351

SEQUENCE DESCRIPTION:

GATCAGAGCA CTGAGAACT CCAGAGGCTT CTGGTTCACC GCCCTGATTC CACAGATGTG 60

GGTCAGAGGC AGAGATGGAA GTTGAATGG ACAAGCCTGC CCTCTCCTCA GCTCTCCATG 120
 GCTCTGTCCT CAGGCTGTTT CTGCAATTG ACATGAGGCC TGGCCCAGG GAAACCAGTG 180
 GGGCCTCATC TCCTCCCTGT GCTGCTCTGA GGTGGAGCCT TCTNAGGGTC AGTCCAGCTC 240
 TGGAGNCCCT CTCCAGCTCG GTCACCAAAG CTGTCTGGTC CCAGGGCGGT GTGGAGTGAC 300
 AGGCACGGCA GCCCAATNCN GN 322

SEQ ID NO:4508

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05352

SEQUENCE DESCRIPTION:

GATCGCGCCA TTGCACTCCA NCTTGGGTGA CAGAGTGAGN CTCTGTCTCA AAAAATAATA 60
 ATAATNAATT AATTAATTAA TTAATAATA AACAGTGGGT TAGTTATCTC AAAAGTGGGC 120
 TTGTTATAAA ANCNGN 137

SEQ ID NO:4509

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05353

SEQUENCE DESCRIPTION:

GATCATAAGA CTGTCATGTA AGAGGTGCTC TCCTGGCACC CAGAGAAAAG GAGCATCCTT 60
 ACCTCCAAAA GCACAGGGAC ACAAAGAGGA ATCTAAACAA ACAGGCCTCT NAGTTTCCCC 120
 CAGTTTATTA CATTTAGCTT GTTCACACTT TGCCCTATGA CATTNCTACA TCACTGGNTG 180
 CTCTTCATCA AACCTACTAT AANNNCATT CAAGTTCAAC TGTTCCTTG GGCCTTNNTT 240
 NNCTTATGGA GGCCCTCGTG TCGTGTAATA CTTNTATTNG GTNAN 285

SEQ ID NO:4510

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05354

SEQUENCE DESCRIPTION:

GATCAGCAGA GTGGAGGCTG AGGATGTTGG GATTATTAC TGCATGCAAG CTCTACAAGT 60
 CCCGGTCACC TTCGGCCAAG GGACACGACT GGAGATTAAA CGAACTGTGG CTGCACCATC 120
 TGTNTTCATC TTGCCGCCAT CTGATGAGCA GTTGAAATCT GGAAGTGCCT CTNTTGTGTG 180
 CCTGCTGAAT AACTTCTATC CCAGNGAGGC CAAAGTACAG TGGAAGGTGG ATAACGCCCT 240
 CCAATCGGGT AACTCCCAGG AGAGTGTCAC AGAGCAGGAC AGCAAGGACA GCACCTACAG 300
 CCTCAGCAGC ACCCTGACGC TGAGCNN 327

SEQ ID NO:4511

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS05355

SEQUENCE DESCRIPTION:

GATCCTCCAC TCCAGAGCAC CTGAGAAGGC CGGGACCAGA GGCCCTGTGT GATGTGTACT 60
CCGCAGCTGT TTGGGGTGGG ACATTTCTGT ACTTCTCGAT TTGCTTATGG CTCAGCCATT 120
ACCTGTGTCA GTCCATGATT CTGTTGTAAC AGTTTAAAGA GTAAATAAAT AAAGCTGCCT 180
GATGTCCCAT CAAA 194

SEQ ID NO:4512

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05356

SEQUENCE DESCRIPTION:

GATCACTTTT CCCTGTCTAA ACTCCAGGNT ACAGTATCCA ATANATCCAA ACAGAACTCT 60
GGTGTCAAAG TGTAANTAAT NGTGTAATAAT AGCCTTCCCA AGNTTN 106

SEQ ID NO:4513

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05357

SEQUENCE DESCRIPTION:

GATCTCACCA CTGTACTCCA GCCTGGNTGA CAGAGCGAGA CCCAGACTCA AAAAATAAAA 60
ATAAAAACCC TGAATATCTT CCTTCTAAA 89

SEQ ID NO:4514

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05359

SEQUENCE DESCRIPTION:

GATCTCTATA CCTCAGCTTC TTCATCTGCA AAGTGAGATA ATTGTACTAT TCTACTTTCC 60
TCATAGTGCN NTTATAACAG ATTATGATAA TATTACAAAG TACTTAATAC TTGGCATATA 120
GTATATATAT NANTATTAG TATTTTGCAA TTTGGGGATA TGAAAATTA GAAATTGCNT 180
GTTAGTTCAT GCTGCACTAC CATATTGTCC TTTGGGGCT CTTCAATGGG TGAAATTCCA 240
TTTACAGTT TATCATGTGC ATCTGTATCA CAGGNGTATT TTGGCAAAAT GATTCTGTNC 300
CAAAAAGGAG TACTATANNN NGNGGGTGCC AAATATATTG AGTCTNTTAT GGGGAAAANA 360
AATTN 366

SEQ ID NO:4515

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05360

SEQUENCE DESCRIPTION:

01407

GATCTCTGGT AAAAAGCAAC ATCTGAGAAA ATTNCTTGTT TTTAGGAACC TGTGTACATT 60
 CATACTTAAT TCTNCCAATN ATGCTTTTCA GTTTTTTGGA TTAACACTCA AAAGTAACAA 120
 GTCCTCAAAA TTAGGTTTGT CCTGTTGTTT TAAGTGGACC TTTGGCAAGA GATTCTAGT 180
 GAAGCTTGAT TCTNAGTACT TTCCTCATGT ATTAAAAAGA GGCTGGAGGA GGGAAACCTG 240
 GACGTGGAGA GTGAGGAGTG ATAGCCTGAG GTTCTTGGTT TGCCAACCTG GGGAAACCCT 300
 GTCTCTACTT AAA 313

SEQ ID NO:4516

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05361

SEQUENCE DESCRIPTION:

GATCACTAAA CTATCTCCCC TCTTGCTGAA GTTCTTTGTA GTAATAGCTC ATAAAAATTT 60
 GTTTATTAAT AAA 73

SEQ ID NO:4517

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05362

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAGAGATTA AACCGAAGTG ANTTAAAAGA CCTTGAAATC CATGACGCAG 60
 GGAGAATTGC GTCATTTAAA GCCTAGTTAA CGCATTNCT AAACGCAGAC GAAAATGGAA 120
 AGATTAATNN GGAGTGGTAG GNTGAAACAN TTTGGAGAAG NTAGAAGTTT GANGTGAAA 180
 ACTGGANGAC AGAAGTACGG GAAGGCGAAG AAAAGANTAG AGAAGATAGG GAAATTNGAA 240
 GNTAAAN 247

SEQ ID NO:4518

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05363

SEQUENCE DESCRIPTION:

GATCGCAGAA CATACTGTAT TTNACTATA TCTTTTTTTT TAAATCTGAC AAACTTTTTT 60
 NCTTTNATTT NAATTGACAT AATTGTACAT ATAAA 95

SEQ ID NO:4519

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05364

SEQUENCE DESCRIPTION:

GATCTGCTTT GGAAATTAAT TGCCTCTAAT ACATACCTAA GTAAACATAA CATTAATACC 60
 TAAGTAAACA TAACATTACT TGGAGGGTTG CANTNTCTAA GTGAACTGT ATTTGANACT 120

NTTNAGTNTA CTTN

134

SEQ ID NO:4520

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05365

SEQUENCE DESCRIPTION:

GATCTGGCAC TGAGCTTTT GTCAGTGAAC CTTCCCGATG CCAGCTGGGC TCTTGGACTC 60
 CCTCTTCCT CAAGGGTAGA TGAGAGGAAC GATNNNTAGA GGTGGCTGT GGGTCCTGGG 120
 TACCACCTTC TGAGCCTCAG TTTCTCATC TGTAAGTGG GGAGAAAAGT CTGTTGCCT 180
 CAGGAGTGTG AGGACTACAC TAGTGAAAGC NCCTGGCGGG CAGCCGGCGA TGCCCAATAA 240
 ATGTGTGNTT TGCTGTTTGT TAAGTGAAG 269

SEQ ID NO:4521

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05366

SEQUENCE DESCRIPTION:

GATCAGTTTG TAATTTTTT NCTCCTTGAA GGCACAAAAT AATTGGTTN AGGTATGTAA 60
 AACACTAGAG GTCAACCTTA CATAGTATAT AGAACTNATG GGTTACCCA GCTACCCAGT 120
 AGCATAACTT TNCACAGCTC GGGGATGAAT TAACATGGCT GAAATAAAAC TAAAAGTATG 180
 GTTTTNAAG 189

SEQ ID NO:4522

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05367

SEQUENCE DESCRIPTION:

GATCACAGTA CACCATATGC ACTCTGGTAC CTTAATTTTT TTTTATAAT AATAAAAGTG 60
 AATATTGAAG CTTCTTAA 79

SEQ ID NO:4523

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05368

SEQUENCE DESCRIPTION:

GATCTGTTGA ATTTGGGAAG CCTCCAGTTT TAATAAAATT TTTTATTAT GGTGGAAACN 60
 TGTCTGTAAA NCTTAGGACT ATAGAAATGC AAAGAATAAA GANCTGAGGG AGTTACACAC 120
 ATTTGTAGTC AGAAATTAAG TTCAAAANAT AATTTAGGTC ATTTGCATTT TTTAGTATGC 180
 AAAATAAATG GAAAANTTAA NGTGCAATAN ANNTATAATT NGGGAAATGA ATGCAGTAAA 240
 NTTGANAACA TTGAN 255

SEQ ID NO:4524

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05370

SEQUENCE DESCRIPTION:

GATCTGTCAG GGCCACTTAG TGATAATAAA TTCTTCCCAA CTGCAGACAA A 51

SEQ ID NO:4525

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05371

SEQUENCE DESCRIPTION:

GATCCGCATC GACTTGGCCG TGGGGCAGCT GGTCAAGACC TGGCGTTTCA GCAACATGCG 60
CCAGTGGAAT GTCAACTGGG ACATCCGGCA GGTGGCCATC GAGTTTGATG AACACATCAA 120
TGTGGCCTTC AGCTGCGTGT NTGCCAGCTG CCGAATTGTA CACGAGTATA TCGGGGGCTA 180
CATTTTCCTG TCGACGCGGG AGNGGTCCCG TGGGGAGGAG CTGGATGAAG ACCTCTTCN 240
GCAGCTCACC GGGGGNCATG AGGNCTTCTG AGGGCTGTTT GATTGCCCTT GCCNTGCTNA 300
ACAACCTGTN ACAGGCACCT CCAAGGCCAG AACCACAGGG GCTNACTNTC GAN 353

SEQ ID NO:4526

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05372

SEQUENCE DESCRIPTION:

GATCTGGAAT AATTATGGTA AAATAATAGT ATTTGCTAAG ACTAGATGAT TGGTGTACTG 60
GATTTTCATCC GCTATTTTCT AAGTTTGTTA TGAACGCTTA AAATATATAT GTATGTAGTA 120
AAATTAATGT AAATTTGTAC AAATAAAAAT AAATGGCATG TGATATATGG CAAA 174

SEQ ID NO:4527

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05373

SEQUENCE DESCRIPTION:

GATCATGTGT TTGGGGGCTT TTAGGGGACC CAGCTGCACT GGGGCACTGC CCGTGGCCTG 60
GGTAGGACAT TTCCAGCAA GGGCTGGAGG AGTTGCCGTG CCTTCAGCCT GAATCGAATG 120
TCGAACCAG CCAGCGGTGC TTCACCCTCT TGGGGATAAC TTGCTTAGTT TTTAATAAAA 180
TGTTCTTGGT TGGTTTTCAA A 201

SEQ ID NO:4528

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05374

SEQUENCE DESCRIPTION:

GATCTATGAA GCCCACCAAC AAGGCCGAGG GGCTCTGGAG GCATTGCTAT GTGGGGGACC 60
 CCAGGGGGCC TGCTCAGAGA AGGTGTCAGC CACAAGAGAA GAGCTCTAGT CCTGGACTCT 120
 ACCCTCCTCT GAAAGAAGCT GGGGCTTGCT CTGACGGTCT CCACTCCCGT CTGCAGGCAG 180
 CCAGGAGGGC AGGAAGCCCT TGCTCTGTGC TGCCATCCNG NNNGGNTCCT CCAGCCTCAG 240
 GGCACTCGGG CCTGGGTGGG AGTCAACGNC TTCCCTCTG GACTCAAATA AAACCCAGTG 300
 ACCTCAAA 308

SEQ ID NO:4529

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05375

SEQUENCE DESCRIPTION:

GATCTTCTGA GCTTGTTTCC CTGCTGGGTG GGACAGAGGN CAAAGGAGAA GGGAGGGTCT 60
 AGAAGAGGCA GCCCTNCNTT GTCCTCTGGG GTAAATNAGC TTGACCTAGA GTAAATGGAG 120
 AGACCAAAAG CCTCTNATTN TNAATTCCA TAAAATGTGA GAAGTATATA TATACATATA 180
 TATATNCCTN TAAN 194

SEQ ID NO:4530

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05376

SEQUENCE DESCRIPTION:

GATCTTGATT GATAACTGCC ATGATATTTT GCTTTGATGT GTTCTACAT GTGGTTGCAC 60
 ACGGTTCACT AAAAATAATG CTGCTATCGA GTATGCAAT ATTGAAGTAT GATGGTTTGA 120
 CTGTATGGNA GTGTTGTAGC AGCCTCTTGT TTTTTCCTT ATTGCCTCTT TTTTAAAAA 180
 ACTTATAAAG TCACTNTTNA TTTTNCCTCA GTCTTCAATG ACGAGAGCAA TATTAAGANG 240
 ACATTGCTAT CTAATNNTNA ATCTTNTTAA ATGAAAAATT CCTATGTTCA GTAGCGTGGT 300
 TGATGCTATT GTGN 314

SEQ ID NO:4531

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05377

SEQUENCE DESCRIPTION:

GATCGAGTCA GCATAAATTT CTAAGTCAGC CTCTAGTCGT GGTTCATCTC TTTCACCTGC 60
 ATTTTATTTG GTGTTTGNT GAAGAAAGGA AAGAGGAAAG CAAATACGAA TTGTACTATT 120
 TGTACCAAAT CTTTGGGATT CATTGGCAAA TAATTTCACT GTGGTGTATT ATTAAATAGA 180
 AA 182

SEQ ID NO:4532

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05378

SEQUENCE DESCRIPTION:

GATCATGAAA CTGGTTTCTG TTTTATGCAG TTGTCATTTG TAAAGNCTAA TAAAATATNC 60
TCTATAATTN CTTCTAGATT ACAAAAATAT GACAATCTTG TAAGTAGCAG ACTATGGAGA 120
AAAATGAGTT ACCTGGNGGG TCAGGTAAC T GCCAAACTN AAANGTNTGT TAGTTGAGGC 180
AAAGTCCTAA GCAAGGTTGT GCTATCANGG CTCAGCATAC CTTCTGTTGGC CTTTGANTTA 240
CCANCACTGG AANTGCCTGC CANCTAATCT GGGGTAGATT CTTTAAGGCA TTCCACTTAG 300
CTTGCCAGTT GNGN 314

SEQ ID NO:4533

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05379

SEQUENCE DESCRIPTION:

GATCAACTAA TAGCTCTGCT AGTAATTGAT TTATTTTNC TCAATAAAGT TGCATAAACC 60
AATGACTTAG CTGCCTGGAT TAATCAGTAT GGGAAACAAT CTTTGTAAA TGCAAAGCTG 120
TTTTTNGTAT ATACTGTTGG GATTTGCTTC ATTGTTTGAC ATCAAATGAT GATGTAAAGT 180
TCGAAAGAGT GAATATTTTG CCATGTTTCAG TTAAAGTGCA CAGTCTGTTA CAGGTTGACA 240
CATTGCTTGN CCTGATTTAT GCAGAAATTA TANGCTATTT GGATAGTGTA GCTTTAATGT 300
GCTGCACATG N 311

SEQ ID NO:4534

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05381

SEQUENCE DESCRIPTION:

GATCGGAGGA CGACCCGAGT CCCAAGAGTG GGGTTTTGCT TTTTAAAAGG AGAGAGGAGG 60
GGTGATGGCA GGGGAGTGGA GGGTGGCCGG GCAGGTCCTG CCGGCGCAGG GAGCCCTCTG 120
CCCTTCACAC TCTCTCCAA AAGAGCCTCC ATCTGTAAGG AAGCAGGTCT CCGCGAGGGG 180
TTTCTTTCCA TGTNTTTTCC TCCTGTNGTT TTAGAACITT TTNGAAAAAA ACNGNCCTCG 240
TTTTAGATTT ATAGCATTGA CTTTACACA CATTACACA AGANAAAAAT CCTTNCAAAA 300
TTCTTAAANT NNNCTGGTNC CNNCTTTNNN 330

SEQ ID NO:4535

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05382

SEQUENCE DESCRIPTION:

GATCTCAGCT CCCGTTCCCC AAGCACACTC CTAGCTGCTC CAGTCTCAGC CTGGGCAGCT 60
 TCCCCCTGCC TTTTGCACGT TTGCATCCCC AGCATTTCTT GAGTTATAAG GCCACAGGAG 120
 TGGATAGCTG TTTTCACCTA AAGGAAAAGC CCACCCGAAT CTTGTAGAAA TATTCAAAC 180
 ANTAAATCA TGAATATTTT TAAA 204

SEQ ID NO:4536

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05383

SEQUENCE DESCRIPTION:

GATCACTTGG AGACTCTTTT TTTGCTGGTT TCTAGATAAC TCAGGTAAAT CAGACCTTTA 60
 CAGAGTACAG GGCTAGGTGA NAGANTTACT GANAAATCAC CTTGAAAATC CGANGGGCTG 120
 ATATACCCCTT NNTGTN 136

SEQ ID NO:4537

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05384

SEQUENCE DESCRIPTION:

GATCTATGCT GTGTTTGCTT ATTCTTTAGT TGAACACACT ATGAAGAATT CCAGGTGTAC 60
 TAGTGAATGT AATTTATAGT TGCCAAA 87

SEQ ID NO:4538

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05387

SEQUENCE DESCRIPTION:

GATCGACAAC GAGGCCCTCT TCAGCTGCGA GGTCAAGCAC CCAGCTCTGT CGATGCCCAT 60
 GCAGGCAGAG GTCACGNTGG TTGCCCCAA AGGACCCAAA ATTGTNATGA CGNCCAGCAG 120
 AGCCCGGGTA GGGGACACAG TGAGGATTCT GGTCCATGGG TTTCAGAACG AAGTCTTCCC 180
 GGAGCCCATG TTCACGTGGA CGCGNGTTNT GAGCCCGGNN NNNGGACGGN AGCGCTGAGT 240
 TCGACGGGAA GGANCTTGGT GCTGGAGCGG TTTCCCGNCG AGNTCAATTG GCTCCATGTA 300
 TTNGN 305

SEQ ID NO:4539

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05388

SEQUENCE DESCRIPTION:

GATCATAAAA TGAATTCTTT ATTGTATCTA CACACTCCAC ATTCTTTACT GTGTCCTACT 60

ACTGTATCTT GGCTCCANTG CTGTATTAAA CACCATCTTA AGCAAA 106

SEQ ID NO:4540

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05389

SEQUENCE DESCRIPTION:

GATCCTCCTT TGCATGCAAC TGTAGCTGCA TTTAATGAAT AGTTTGAACC CTTGTNAATN 60
CATTTTTTNA AAAAGAAAGA AAAAAAAAAAC TTCGTGTATG NAACTCAAAG CATGNAACCT 120
TAAGATGTTG CATTCTAAAC TNACANTAAA GACCTTCCC AANTAAA 167

SEQ ID NO:4541

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05390

SEQUENCE DESCRIPTION:

GATCCATACG TGGCCGCACC CACACAGCAC GTGCTGTGAC NGATGGCTGA ACGGAAAGTN 60
TACACTGTTC CTGAATATTG AAATAAAACA ATAACTTTT AATGGTANAA A 111

SEQ ID NO:4542

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05391

SEQUENCE DESCRIPTION:

GATCAGTTCT GCAAGATGCC CATCAACAAC AAGATGGCCC AGTGGGGCAA CAAGCCTATA 60
TGCTGAGCAG GAGGCAGACT TGCAGAGCTT GTTTTGTTT ATCCTGTCCG TAAGGGGTCA 120
GCGCTCTTGC TTTGCTCTTT TCAATGAATA GCACTTATGT TACTGGTGTC CAGCTGAGTT 180
TCTCTTGGGT ATAAAGGCTA AAAGGGAAAA AGGAAA 216

SEQ ID NO:4543

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05392

SEQUENCE DESCRIPTION:

GATCGAAAAT AGTTGGAAAA AAGAAGAAGA GTTGCATCTC TACTGAACAT GTACAGACTT 60
TCTTCTTCTT ATTATTCCT AAACAATACA GTGTAAAACT AAA 103

SEQ ID NO:4544

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05393

SEQUENCE DESCRIPTION:

GATCAGAACA NTNCAAAAAA TTCACACCCC CAAAAAAGNC AAGCTATTAT ATGGCAATTT 60
 CGTGATAAAA TATTCATCCT ATTTGTCCTG CATTCTAAT TTTCCCGTAA CTAGACACAT 120
 CAGTTTTATA ATTAGGGNAA AAATACCTTN TAAAAGTAAA GCGAGCANAG GTTTCNNTTG 180
 CANTGTTTCAT TCCN 194

SEQ ID NO:4545

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05394

SEQUENCE DESCRIPTION:

GATCTGGTAG GTTGACAGCAG AGAAAATAAA TGTGACTTGN GAGNCCACTC AGAGAGGGTC 60
 CAAGGGTGAT GGAGAAGGAA GCATGGCCTG GNAGCTTGGA AGGNANGN 108

SEQ ID NO:4546

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05395

SEQUENCE DESCRIPTION:

GATCTGCTCT TGCAATGGCC TCACCATCTG GNAGGAGCGA GGCCGGCCCA TCGTTGGCAA 60
 GGGCCGAAAG GAGTCAGCGC ANCCCCTGCC CACCTTNAG CAGGACCTCA CCTTGGCTCT 120
 GTTGCTGTCC TCCAGGGCGA GCACTTTCCA CTTCAGAGG GGGCCAGAGG GACTTTGCCT 180
 GCCCAGTCTT TGGAGAGCTC AGTACAGGGC AGGAGCTGCT GTGGTGTTC CTTGGCAAAT 240
 NAAAGTTTTA TTTTCGTTTG GGNAAA 266

SEQ ID NO:4547

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05396

SEQUENCE DESCRIPTION:

GATCTCCGTG TGTGCATGTN ACTGTGCTGG GTTGAATGT GAACAATAAA GAGGAATGTC 60
 CAAGTGTTC AA 72

SEQ ID NO:4548

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05398

SEQUENCE DESCRIPTION:

GATCATGGGG GTGGATTCT TATGAATGGT TTAGTACCAT CCACTTTGTA TTGTCCCCGT 60
 GGTAATGAGT GAGTCTTAA GAAATCTGGT CATTGAAAAA TAAA 104

SEQ ID NO:4549

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05399

SEQUENCE DESCRIPTION:

GATCTTCACA TCTTGGACCT TNGTCAGTTT TGCTATTCAT TATTAAACAC TAAAACTTTG 60
GCGGTTNTTG CAAA 74

SEQ ID NO:4550

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05400

SEQUENCE DESCRIPTION:

GATCTGAAAT CACATCCAGC TCCTGATGTT TTCTTCTCCC TCTGACTGCA GAGGAAGTGT 60
TCCTACCTGC AGGAAGGCAC CTGTCACACA GGGCGTTCAC TCAGACCATC TGTGCTCTGC 120
CCTGAGTTCA GTTGAGAAAA TCCTATTATC AAATTGGNT TTCCTGGCCC CAGAACTTCC 180
CAAAGACCTG TAAAATGGAG GGATTACCA CCTCACATAT GTCCAGTTAA ACAGTTTGTG 240
GACTTGTAAC CGTCGCAGCC CANTGGTACA ACAGTAGTTT AATCACGGGA AA 292

SEQ ID NO:4551

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05401

SEQUENCE DESCRIPTION:

GATCGGATGG GCAAGTCCCT GCCAGGGTCT CCAGATGGCA ATGGAAGCTC CTCCTTGCCC 60
CACTGGGAGT AGCGGCTAAA GCTGGGGGAT AGAGGGGCTG CAGGGCCACT GGAAGGAACA 120
TGGAGCTGTC ATCACTCAAC AAAAAACCGA GGCCCTCAAT CCACCTTCAG GGCCCGGCCC 180
ATGGGCCCCT CACCGCTGGT TGGAAAGAGT GTTGGGTNGT TGGCTGGGGG TGTCAATAAA 240
GCTGTGCTTG GGGGTCGCTN GGAAA 265

SEQ ID NO:4552

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05402

SEQUENCE DESCRIPTION:

GATCTATGCT CTTTCAAATG GAGACTGGGA TATTGTTGTT TTAAGACCAC TGTTTTCTG 60
TTTCTCCCA AATNTTAGTC ACATATATNA TTACCCTTAA GTTGGTCACT ATCTATCTAT 120
CTGTCAATAA TTCAGGATTA AAGTTTGAAG TGTAAATTACA TTTGANTTTT AAA 173

SEQ ID NO:4553

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05404

SEQUENCE DESCRIPTION:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTCAACA GACAGCCAGA 60
 ATGGGTNGTG TACCATGAGC TNGTGCTCAC CACCAAGGAA TACATGCGTG AAGTTACCAC 120
 CATCGACCCT CGGTGGCTTG TGGAGTTGCG CCCAGCCTTN TTNAAGGTCT CAGACCCANC 180
 TAAGCTAAGN AANCAGAAGA AGCANCAGCG TCTTGGNACC GTTGTACAAC CGNTATGAGG 240
 ANCCCAATGN CTGGGAGAAT ATCTCGGNGN 270

SEQ ID NO:4554

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05406

SEQUENCE DESCRIPTION:

GATCGGGTTG AGCCCAGGAG GTTGTGGCTG CAGTNAGCTG TGATGTGCCC TTATGCTATA 60
 GCCTGGGCAA GAGCGTGAGA CCCTGTCTCA AAGAAGAAAA AAAGAGAAAA ATAACCTTTT 120
 TGAACAAACA GNCAATTAG CTAGTAGTAT GGAGATGTAT ACCCTCTATT ACACACATAA 180
 AACCCTAACA AAATTCATTG NGGTGTATTA TAGTTAGTTT TGTGAATAGA GAAATAAAGC 240
 ACTGATGNTT AANNTTGGTT ACAGTGACTT TTAGAAGGGN TTNNTTNGTG GTTCACATTN 300
 GTCAGAANTT TTTTCCNNC NNGGCTGGTT CAN 333

SEQ ID NO:4555

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05407

SEQUENCE DESCRIPTION:

GATCTCCCC TTCCCTTGNG GGGCACAGCT GGCCTGGGCC TCCAATCCTG CGGANTTTCC 60
 TGGGTGTGGC TTTGACCTCA GAAGTGGCTC TGGTTTGGCC TCAGGAGTGT GGCCTGGCCC 120
 AGCCTGCTGC AGCCTCCTGT GNGGGGCCCT TNATGCCACT AATCCCCNGA CCCCCGGAT 180
 NTTNCAAACT GNACAGACAC ACGNATTGTT AAGGCCGCTT ANGGCCTCCA GCGTGCACTC 240
 TTNTTTANGN 250

SEQ ID NO:4556

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05408

SEQUENCE DESCRIPTION:

GATCAATGCA NCGACGTNGG GCTCATGGCC TACCTCGGCA CCATCACCAA AACGNGCAAC 60
 ACCATGAACC ATTTTGTGAA CAANTTCAAT GTCCTCTACG ACCGACAAGG CATCGGCAGG 120
 AGAATGCGCG NGCTCTNTTT CTGATGAGGG TACTTGAAGN GGCTGATGGA CAGGGGTCAN 180

NGCAACTATC CCAAAGTGGA GNGCACTACA N

211

SEQ ID NO:4557

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05409

SEQUENCE DESCRIPTION:

GATCTTTTT CCATTGGTTA AACATTTAAC TCCATGNCAG ACCTTGTTTT AACCCCTCTC 60
ACATCATGTT CTTTCCTTTT TTGCGAGTTA TTTTGCATTA ACCAACTTTG TCAGTGACAG 120
ATGCGTATCT GAGGGTGTCA CACACGACCN TCAGCAGGGA AGACTTCTGG GCCATGGAGG 180
GCCGTCTAAT ACATGGACTT ATAAACTGAC TGCNTGGGCA ATGAAAAGGC CAAATTATTC 240
TGAATTTTT TNGAATCACT GTAAAAAAC TGATTNTTN NTGTATAGAG ANCACTTAAA 300
CGGTGGAN 308

SEQ ID NO:4558

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05410

SEQUENCE DESCRIPTION:

GATCCAGCTG GTCATCCCA GCCCAGGTGG GCCAATTATT CAATTTNAA GAATTTTGT 60
GCAAGCCAGT TGTCAAACAC AGCCATTATA ATTATGTAAA TTTGCAANTT ATGTTAAAAA 120
CAAGGACAAT AAATATTCAA AATGCATCCC TAATTACTAC ATTTGACCAC GNAAA 175

SEQ ID NO:4559

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05411

SEQUENCE DESCRIPTION:

GATCTTNACA ACTGTTTAAT CAGTTTTATT TTTGTACAGT ATTAGTGACC TAAGTNATTT 60
TGCTGTCCCG TTTTGTGAAA TCAANTGAAA NTATAAAGA GGCTGTGAC AGTAGGTATT 120
TTGTACATAT GTATATATGT TGTCCAAATA AAATTAATAA ANTGGTNAAA GGCTGAAA 178

SEQ ID NO:4560

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05412

SEQUENCE DESCRIPTION:

GATCTTCAGC ATCTTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAAACA GGNAGGCAAA 60
ATGCCGCAAA AAAGAAA 77

SEQ ID NO:4561

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05413

SEQUENCE DESCRIPTION:

GATCCCAGGA ATATTGTAAA TTTCTAACT TTACTCTGCA TTTTGTATAT CTGGCCTCTA 60
TTGCCCTTGA AGGTGAAGAT GAAACTGTCT TTAGAAGATA TCTCTTTGAT TCTGTGATAG 120
AAGTCCCTCA CATCTTGTAT TAATTTTATG TATATATCAA CGGTGGTTGG TCTTTAAAAA 180
AATAAATCAA AAGAATANGT AAA 203

SEQ ID NO:4562

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05414

SEQUENCE DESCRIPTION:

GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
TAACGTAATC TACCATTTC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
AAAACCTAAC GCTTTTTTGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGATGAGC 180
TACGCCTTGA TGAAAGAACC GTGTTGGTGC TGCTAAGTTT AGCCATTATG GTTGNGCCN 240
TTNTCTNTCT TAAGGCCTTA TTCTTTCAAC TAAAAAGNTG GGGGATTNAG GNGCCAAGGN 300
AGNTTGGGGG GGGGNTNNTG NAAATTAANT TTTNTTGAGG GGTNGGCNTA GN 352

SEQ ID NO:4563

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05415

SEQUENCE DESCRIPTION:

GATCCGCAAC CTGGACCCCA GTGAGAGGCG GTGGGCTGAC TGGGAAGNAG AGGCCCCCAA 60
CCTACTCAGG ATTTNCACGT GTGAACTAGG CTGCCTGTGG GGTGCCCCCTT AGGCTTGGAG 120
AGCCCCAGAT TGGAGGCAGA CAGACTGCAC CACCCCTTCC CCCCTGTCAT CTCAAGAATA 180
AAGCAAGCTG CCTTTGTACT TGGTTGNAAA 210

SEQ ID NO:4564

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05416

SEQUENCE DESCRIPTION:

GATCANATAG TTGCTGTTTT GTAAATGTA ATGTATATNT GGTTTTAAGT AAAATAGGGC 60
ACCTGTTTCA CAAA 74

SEQ ID NO:4565

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05417

SEQUENCE DESCRIPTION:

GATCCAGAAA CTGAGAAGCT TATCCGAGAG AAAGATGAGG AGCTGCGGCG GATGCAGGAG 60
ATGCTACACA AAATACAAAA ACAGATGAAG GAGAACTATT AACTGGCTTT CAGCCCTGGA 120
TATTTAAATC TCCTCCTCTT CTCCTGTCC ATGCCGGCCC CTNCCAGCAC CAGCTCTGCT 180
CAGGCCCTT NAGCTACTNC CACTTCGCCT TACATCCATG CTGACTGNCN AGAGACTNAN 240
GNGGCANTAA AGTTTAATAA ATCTGTAGGT GGCNNANAGA AAAAGAAAAN AACAAAANAA 300
AAA 303

SEQ ID NO:4566

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05418

SEQUENCE DESCRIPTION:

GATCGTGTTC TAACTTTTC TTTTCCTGTT TTTATTTGG TATTAAGTCG TTGCCTTTAT 60
TTGTAAAGCT GTTATAAATA TATATTATAT AAATATATNA AAAAGGAAA 109

SEQ ID NO:4567

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05419

SEQUENCE DESCRIPTION:

GATCTGGAGG CAGCAGTGCT GGATGGAATT GTCTAGGCTG TGGCATGTTG GTTTTGTCTT 60
TCTTTTCTCC TTTGATTATG TAAGAGCTAT TTCATTATAA CTTATTATGG TGATTATACA 120
GGCAAGAAGA CAAAAGGAG AGAAAATGTA CCTCTTCTAC TGAATAATG TTTATGATTA 180
CAAGTGAGAT AAGGTATTTT NATCAATATG AAGGCAACCT TGGCTGATAA AACCTCTATA 240
GTGAATACTC ACATCTTTNA CTTCACTCAC TATCAATAAT AAATATATTT NCTGACAANG 300
AAA 303

SEQ ID NO:4568

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05420

SEQUENCE DESCRIPTION:

GATCTCTTTT GTAGAGGATT TCAATGTATT TCTTTATCAT TTGAGTGTGT GTGTGATGGA 60
CGAATATGTG TGTGAGTTTG AGAAGCATAT CGTTCGTGTC CAGTTACTTT GCAAATTTGT 120
GGACATTTGT GATTGGACAG AGGGGTTTGT GCTGTGGCCT AACACTTGCC AAGTGAGGTG 180
TAGGTTATGC CTATATGCAA ATTAACTTC ACCTTTCTTG AATATTCAAA 230

SEQ ID NO:4569

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05421

SEQUENCE DESCRIPTION:

GATCCCCAAT TGA CTCAGAG TTTGAGGAGT TAGTATCACA GAATTAGATT TTTTAAAGC 60
 ATTTGTACGT TTCCATTCCC AAATATGTAG CTGTGGTTCT TGA AACACA TCCTACATTG 120
 CATATGGGCA TAGCAGTTTT TGACCCAGGC AGAATAAGTT AATATTTAAT TAAATATTGC 180
 TTTGAAGATG GCGCTCTGGG CATGAGCATG GGGCTCCATG ACTTCCCTTC TATCCCATG 240
 AGCCCTCTCT NCATCCAGCG ACAAGCCATG GGCATGCATA CAATGCAGCA AGACCAACAC 300
 ANGGCAATA TTGAATTGGN TCATTCTATC TAAAAATTAC ATGGGGNGGG ANG TN 355

SEQ ID NO:4570

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05422

SEQUENCE DESCRIPTION:

GATCAGAAAT AAACGACAAA TAGTGTGAGA TGTGTTGTGA ACAGGCATGG TGACCGTGGT 60
 CAGCGCCACT CTTGTTTCCT GAAATGTGCT TCTAAGACAG AAAATGTATT TNCTCATCAA 120
 GGGTGTCTGG AGACACAGAC CGTGACCTTG GCGCANGGTG TGCATCAGAG GCGTGTGCTG 180
 AGAAGGGTGG TGTTAAGCTG TGGAAATGA CTCAAGAGCA ATAAATCAGT GCCAAAGCTT 240
 CCCTGCGCAT CTGAATAGNC ACAAGTGAAG CCCGTGTGCG CACAGTGCAG AGGCCNAGNC 300
 TGTATTCCA GGTAGNGTGG CTTTATTGA CTGTGAATCC ATTTACCTGT TAN 353

SEQ ID NO:4571

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05423

SEQUENCE DESCRIPTION:

GATCGGGTCT ATTTACCCA ATAGTCACTT GTGTGTCCCC CGAAATTGGG ATGGGTGAGC 60
 ACCCTTGCTG TGGTGTA AAC TTCCTGTTAT TTAATCTCCC CCACGGTTTC ATTTTNTNT 120
 TCTGTTAATA CTTAGAACTT TCTAAGAAAC TCCATGAAAT GAGGAAATAC TGTTCTAAT 180
 AATATGAGGA AAGANGTAAA ANTGTTCATT CCANGTGGCA AGTCTTATTG GACACATTTT 240
 ANATAAGNTC ATGCATACCT GATAAA 266

SEQ ID NO:4572

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05424

SEQUENCE DESCRIPTION:

GATCGCCCGC ATGAGGTGCT GCTGTGCTCG GACCTGGTCA AGGCATACCA GCGCTGCGTG 60
 AGCGCCGCCC ACAAGGGNTG AGGAGCAGAC ATCATTCCCT GCCCTGGCAG TGACTTGGAG 120

CCCTGAAGAA GGGCCAATCA TGGGACCACA GCCACTGTGC CCTGCCGTTT CCTGCTGGGC 180
 CCCTGCATAT GCCCCTGAGC CTGGGGCTGC CACGTGTTA GGAAACAAAG TATGCGCTAC 240
 TGTCTGAAAA CAAATAAAGC AGATGCCTTT GTTTTCAAA 279

SEQ ID NO:4573

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05425

SEQUENCE DESCRIPTION:

GATCTAGGCC AGTGGCTGCT TGTCTTGTG GAGCTGTGTG TNTNCTNCTN TAAGCAGCTC 60
 CTCCCCGGAG TCCCCAGCA CAGTCCCAGG AGATGACAGG AAGGAAGCAC CAGGGCAAGN 120
 CGGACGNTCA N 131

SEQ ID NO:4574

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05427

SEQUENCE DESCRIPTION:

GATCTCACCT TCCACCTCCT CCGGGAAGTC TTGGAATGG CCAGGGCCGA GCAGTTAGCA 60
 CAGCAAGCTC ACAGCAACAG GAAACTCATG GAGATTATTG GGAAATAAAA CGGTGCGTTT 120
 GGCCAAAAAG ANTCTGCATT TAGCACAAAA AAAATTATAA AAAATACAGT ATTCTGTACC 180
 ATAGCGCTGC TCTTATGCCA TTNGTTTATT TNTATATAGC TTGAAACATN GAGGGAGAGA 240
 GGGAGAGAGC CTATACCCCT TACTTAGCAT NCACAAAGTG TATTCACGNT GCAGCAGCAN 300
 CACANTGTTA TTCGTTTGG NCTTCGGTTT NGTTNCCGGG GNCAGGTGTT TTTATTAGTG 360
 GNGTTTTTAA AAGGNGGNTN GTNGGGACCC TGTGGAGNA NAANCGGTTT TGN 413

SEQ ID NO:4575

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05428

SEQUENCE DESCRIPTION:

GATCACGCCA CTGCACTCCA GCACCCTGGG CGACAGAGTG AGACCCTGTC TCAAA 55

SEQ ID NO:4576

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05429

SEQUENCE DESCRIPTION:

GATCTGGCGT TGCCAGGCAT TCTGTAAGGG AGGGCTTTTC CAGTTCCTGG AAATGGAAC 60
 GGAAATNTG GCTGGAAACA TTAATATGGC TGGAAATGGA AA 102

SEQ ID NO:4577

LENGTH:420

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05430

SEQUENCE DESCRIPTION:

GATCCAAGCT GCTTGAGGGG GTCAACCTTG GACCAAAGTT GCCTTAAGCC TGTGGTAAAA 60
GGGCTTCAGG GAAGGTAAGT GGGCCANCTG CTGGAAGCTG CCAGCTGCCC GGNTGGCAAT 120
GGTGTGAGTG TCTTGGCCCT GTCCCTGCCC TGGGGTCCAG CAGGTNATCC CTCCTTCTT 180
CTCTCTCCTT TGGCGTTTGT TCCTGTAGTC ACTGGGCTAA TCTCCCCCTA GCTTGAAGCT 240
GTACATAGGG CCTCCNAGTG CAAATGNTNC TGNCCATACC GTGCACCCTT AGAAGCCTGC 300
GTGTGCATAG AGCGCCCNNT ACTTNCCAGT TAANTTCCNA GTTCTTGTTN CNTGAGCTTG 360
GTATTTTGTC ATGTGNCAAA TTCTGACTTT TGAAGGTTGG GNAAGTGAAG GGGAATTNAN 420

SEQ ID NO:4578

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05431

SEQUENCE DESCRIPTION:

GATCTGGGAC GTCCACGAGT GAGGGGCTGG CCACCCAGCC CGACAGCCTT GCCTGACCAC 60
CCTCCAGCAG ATAGACGCCG GCACCCCTTC CTCTTCCTAG GGTGGAAGNG GCCCTGGGCC 120
GAGCCTGTAG ACCTATCGGN TCTCATCCCT TGGGNTAAGC CCCAGTCCAG GTCCAGGAGG 180
NTCCCTCCCT GCCCAGCGAG TCTTNCAGAA GGNGTTTAAA AGGGTTGCAG GTNCCNACCA 240
CTGACCCCTC CCGGNTGGCC TNCTTGCNCA GCTTANAANC TTAAAGTCCA GNACGCAGTA 300
ACCTNTN 307

SEQ ID NO:4579

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05432

SEQUENCE DESCRIPTION:

GATCCCTCTC CAAAGTGGTT GTCTTCTINT ACCTTGTGTC TTCTCTTGTA AAAATGAAAC 60
TCAAAAATAA AATAAATGTG TCAAATTTTG AAAAAAANG AAAACTGAAA AAGCTAACAT 120
GANTTGTGTG AAATTGCATA ATGCTGTANT GCTAATCTAC AATATGTAAT GCTATCTTGT 180
ATGTNGNATT TGTTAATGCA CCACACAAGT GCAANGTAAA GACTGATTCA CNTTGNNNN 239

SEQ ID NO:4580

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05433

SEQUENCE DESCRIPTION:

GATCTGACTG TACTAAATAT GAAAAATAAA GCAGCACATA CTTTCTCTAA A

51

SEQ ID NO:4581

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05434

SEQUENCE DESCRIPTION:

GATCCATATA ACTGTTGGGT GCATCAGTGC TTTTNAAGG GGCTGCTTAC TATAGGGTTA 60
ACTATGTATA TNCATTGTTA AGAGTAACT TGTGGTTTGG CTGTTTCCTG GATTNATAA 120
CATACATGTG CAGAAATGTA TTCAAATGAA AGGNAGCATA CCTTTATCAN GATGCTATTA 180
AANTTGANCA TCGNGTNTAA A 201

SEQ ID NO:4582

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05435

SEQUENCE DESCRIPTION:

GATCATACAG TGAGGCTACA GTGACTGAGG GGAGAATCCC CTCCTGTTCA CTCTCCCAAC 60
CCTGCTCCAG CCCCTCAGCT TCCAGACCC TCATGCANTT GGTGTAAAT NCTCCAGGA 120
GCTGTTTTAC TGTCTACTTT TCAGGATTAA AAAAAANNN AAAACTTAA 170

SEQ ID NO:4583

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05436

SEQUENCE DESCRIPTION:

GATCGGACTC TGCCCTGGA CCTGGGAACG ACTGGACTGT CACGGGGTTA CCTCCTAGCT 60
CTCCCACTGA ACTCCTGCCA GGCACACACA GCCCTATAG CACTGAGCTC ACATGGGACT 120
GGGATATGGG GGCATCTCTT CCCCAGAGAG GCACTCAGTG AGCCTCCTGT GCCTGGNCCC 180
AGCCTGGGCC ATCTCTTAGG TGAGACAGTT GCCCGAACT AAGCCAGGCC TGGCTGGAGG 240
AGCAGCAGCT TGGGGAGAGG GATTTCCTG CAGACCTCAA GCCATCATGC GGTGGGTGCT 300
GCCATGACAG AGGCTGGACC NCTGGGCCAG CGGGGTTGCT CAACCACCTT TTGTGCAAGG 360
TGGCCTTTGT GCTTGCGCCT GCAGGCAGAN GTN 393

SEQ ID NO:4584

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05437

SEQUENCE DESCRIPTION:

GATCCTGCCC GAGGAGGAGG ACGAGGGTGC CGACTCCTAA CCCC GCCAGG CAGCCTCGTT 60
CTGCACAGGC ACTTTAGCCC GAGCCAGGNA CACCTGCGAG GGGGCAGGTG TGCTCCGCCG 120
CCCTGCTGAT AAGCTGGCTT CATTAACTG ACACCTTCTCA AA 162

SEQ ID NO:4585

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05438

SEQUENCE DESCRIPTION:

GATCTGTAGG GTCAGGAACA CAGCACCTAA CACAGTGCCT TATGGATAGT AGTTTTATAA 60
TACAGATGTG TTGGAAGAAT AAATGAATGG GTCCTTTTCA AACAAATTCA CCAGAAGTTA 120
AA 122

SEQ ID NO:4586

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05439

SEQUENCE DESCRIPTION:

GATCTGTAC CTCAGCGAG ACCTATTTCC TCCCCACCCC CAGAAACCTC TTGTGTTCTT 60
GCCTAGGCCC AGGTGTTCTT GGCAGCCAAA TCGAGTCTCT CATTTTCTCT TGTGGACCAG 120
TTAGTTTTGC CCATAACGCA GTATTCTGAG TTGCAACTG TCTCTCTGAT GTGTGCCTTT 180
TGTTCACAC AGTAACCCCT GCATTCTGCT CTGCTCTAAT ACACTACCTG GAGAAAGTCT 240
TTTCCTTATT TTCAATAAAT GTCAGACATT ATTGNAAAGA AAAAANTN 288

SEQ ID NO:4587

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05440

SEQUENCE DESCRIPTION:

GATCCCTATG TGGCTAACAG AATTAATGNT TCCAAAAATG TTGNAAATTA TATAGTNCTC 60
TTAATTCCCC ACCTCTAACT ATATTTTGG GTTATTTCTT TAGGAACAGA TGCCCAGGAG 120
TCATATTACT GAGAATCTAG AAATCTTTTG CAAAGTTCTT GTTATNTTGN CAAATTGCTT 180
CCCNNNNN 188

SEQ ID NO:4588

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05441

SEQUENCE DESCRIPTION:

GATCTGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CAGTGCCCAG 60
TCCTGCCACA TCTTTTTTGT TAGTTGCAGT AGCAATACAA CCTATCTAG AAAAGCTGGC 120
CAAAAAAGAA AATACCATGA TAATAGGGTA CCTAATTTAT TGCTTTATTT AAGAAAAATG 180
TAATATTTCA TTCGAATAAG TACTTTTGGG CTGGGATGNT ATTCATTTA GCTACTTGGC 240
ATGCCACCCA TCTTAGGGAA TTATATGAGG GTTTATACTT TAAAGTN 287

SEQ ID NO:4589

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05442

SEQUENCE DESCRIPTION:

GATCAAAATT TCAAGTTGAC AAATTGGAT TTGAAACTC ATTCACTTT TCAATTTTT 60
TAATGAGGCA TAACATGCAT ATGGTTAAGT GCACAAATCT TAAGTGACA GTCAGTGAAT 120
TTTTGCATGT ATGTATGTAC CTGANGCAAG ATATAGAACT TATTTACTTG TAAATAACAG 180
CTATATTGAT ATGTCACATA CCAAANANTT TACCCTTTAA NTTATACAAT TCAGTGGTTT 240
TTNGTATATT TGCAAAATTG TGCAACCNTC CCNACCATCT AATTCTAGN 289

SEQ ID NO:4590

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05443

SEQUENCE DESCRIPTION:

GATCCTCAAA GAAAGATTG TTAGAGATAG ACAGGTTTAC AATTTGTGGA AACCGAATTG 60
ACTGAATCTG TGGCTTCATG CGCTGAAGAA GCTGGGTCCT GGGGCAACAA GTGCTGTGTT 120
GCCAGGACAA ATAGATGCTA AACATGGCAC TTAAATATTT ATTTAAAAAC TTAAATTATT 180
ATTGGCAAGC AAATCTTAGT ATCTTTCTTC CAGTAATATG GCCTGGCTGA GGGTCAGACC 240
ACAGGACAGG NGCGACCTCC GGCCTTGACT GTCTGGGAAG CTTGATGGAT TTN 293

SEQ ID NO:4591

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05444

SEQUENCE DESCRIPTION:

GATCCACTTA GAGCAATAAC CACTTTTTAA ATGTAAAATA AAAAGACAAA TGNAAGGCA 60
AA 62

SEQ ID NO:4592

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05445

SEQUENCE DESCRIPTION:

GATCTTCCCA CTGACTCCA GCCTGGCCAA TAAGACCTGT CTCCAGCAAG ACCCGNGTCT 60
CAAA 64

SEQ ID NO:4593

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05446

SEQUENCE DESCRIPTION:

GATCTAGATT CATTAGGAAT GTNTTCTTGT CAGCCAGGCC AGGACCCGGG CTTGCCAAGA 60
GCAGAGGCC TCCAGCAAC CAGGATACCA CCACTTTGGG GGCTTTGTGT ACAGAGGTCC 120
GGGTCTGAGA CCTCATAGGC TGCAGAAATC TGGGGCAGCC ACCATCAAGA AGCCCTCTC 180
AGGGGCCAGA ACTCCTTTGC CAGCGTGGAT TTCTCAAGTC GGGACTGCAT AATTAAAGCA 240
GTTGCAGTTT TATTTTTTTT ACAGCTTTT TCCAAAAAT GATTGTAGT TGTGTGTGCA 300
GCACTTTCGG CCTGATATGT GTN 323

SEQ ID NO:4594

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05447

SEQUENCE DESCRIPTION:

GATCAAAAAG ATAAGTTTAC AAAGTTGAGA CCTCTCATAA AACAAATGAA TAAAAATTTC 60
CTCTTGTA 70

SEQ ID NO:4595

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05448

SEQUENCE DESCRIPTION:

GATCACCTGT GCCTCCCTC CCCCTTTGTT TGCCCTGTG TGGTTGGTCA AGGAGGGATG 60
TGAGGGNAAT AGGGACCCC CGACTTGCCC TCCTGCCTCA GTCTTTCCC CACCCTGTCT 120
CTTCCTTGTC CTCTCTGGA AAATGCCAAA ATACCGATG TGAATAAAAG TACAACGGCT 180
AAA 183

SEQ ID NO:4596

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05451

SEQUENCE DESCRIPTION:

GATCTATAAT TATGCCAATA CCACACTGTC TTGATTACTG TAACTTTAGA ATAAATCTTG 60
AAAGTAGAAA 70

SEQ ID NO:4597

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05452

SEQUENCE DESCRIPTION:

GATCTGCCTG TCAGAGTCCA CGTGTCTGG TCACTGGTCT TTATAATTGT TGTGCAATAA 60
 CTAAAGGCTA AGGACTAGAT GCACTATCGT GTAAAGAGAT TACACATGAC TGTACCATGT 120
 TGCACCTAAT CAAATAGTAT GTGGGGNTTT AAAATCGCTT GCATTGTTTC AAAAAATAAA 180
 TATCTCAATG TCAAATACTA AA 202

SEQ ID NO:4598

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05453

SEQUENCE DESCRIPTION:

GATCCTGGNG CCTGGACCGG GCTGGANGAC AGCTGAGNAT GGGCCTAGCA GATGAAGCTT 60
 GCCAGCAAGG CCAAAGCAAA CGGTTTCTNC TGTGGATAGT GGACAGAGAC CTTTGTAAAC 120
 AATGGAATTA TTCATTTTNC TCTATCINN 149

SEQ ID NO:4599

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05454

SEQUENCE DESCRIPTION:

GATCAAGCAA TGAAAAAATT TGCACCACCG TGTCCCATGA AATTGTTTCA ATGTTTAGTT 60
 TAGATATTGC TAACTTGTGC TATTACCTT TTGACAAGCG TGAGTATTG TTTGTTTGG 120
 GTTCTTTTT GATTTATAAC TATTTAGTAG TCCCAGCTA GCTACCAGTA CAGATTTAC 180
 CCCATGGGTA GGATTCTATT GTTAAGCCAC ATAACAAAGC AACTAATTC TGACANCACT 240
 GCAAATGGAA AATACGAACC AAAAAAAGT TACACCGATA AGTTCANCA ACTGTCCATT 300
 TTTGGATATT N 311

SEQ ID NO:4600

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05455

SEQUENCE DESCRIPTION:

GATCCTGCCT TTTCTTTTC CCCACAACTT CACGCCAGNA GTTCGTTCAC ATCAGGTAAA 60
 TCTTGAGAAA GCCTTGGTGC CTCCTCCCC ACCCCCCACT CAGTAACCAC GTGCGTGAC 120
 CCCCAGNATCC TTTCTCAGTA GTTAAGACGT TCTAGGCAAT ACCATAGACA CATCTGACTG 180
 TGTCTCTNTC TTTGAGTGCA AGAAACTCAA GTNATCTTAA A 221

SEQ ID NO:4601

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05456

SEQUENCE DESCRIPTION:

GATCAGAGCA GCTACACTGA AGCAAAAACC CCAGCGCCCA ACGCTAAATA TATTGCAATG 60
 GAGAAACCGT CCACAATGGG GTGTCTCTGT CCTTAGCAGA GCCTTGGGGC TGCCGTTTAA 120
 GACCCTCCTG CTACTCCAC CCTTTAGCA TCTAGTAAAC CACGCGCTGT AACAAA 176

SEQ ID NO:4602

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05458

SEQUENCE DESCRIPTION:

GATCTCTATC ACTTTGCCAC CTGTTTGATG TGCAGTGGAA ACTGGTTAAG CCAGTTGTTC 60
 ATACTTCGTT TACAAATATA AAGATAGCTG TTTAGGATAT TTTGTTACAT ATTNGTAAAT 120
 TTTNGAAATG CTAGTAATGT GTTTTCACCA GCAAGTATTT GTTGCAAACT TAATGTCATT 180
 TTCCTTAAGA TGGTTACAGC TATGTAACCT GGTATTATTN CTGGGNCGGG CTTNTTTAAA 240
 ATACNAGNCC NGGCCAANAN AAANTAGGAN CAAAAACCTN GGGGGTTCTG AAA 293

SEQ ID NO:4603

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05459

SEQUENCE DESCRIPTION:

GATCAGGGAT GGGGATGAGG TGAGGGGATT TGCTAGAAAG GGGTGCAAAG GAATTTAGCG 60
 GGTGATGGAG CTGTTCTGTG TCTTGATTGT GGAGTTATTA CAAGACGGTT ATTACAGTTT 120
 TGTNGTATTG AATTTTACTG TATGAAAATC ATACCGCAAT AAACCTCACT CACATACGCA 180
 CAAA 184

SEQ ID NO:4604

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05460

SEQUENCE DESCRIPTION:

GATCAAGGAA TCTTTCATGA AGGAAATTTA AATACAGAAT GAAACATTAA NGGTAAAAGT 60
 GGAGTAATTA TTAAATTAT GTGTATAAAA GGAATCAAAT TTTGAGTAAA CATGATGTAT 120
 TACATCATCT TCGGAAATAG ATATGATGGA TTCTAGTGAA GACCAAANTT ACTTCTGTTT 180
 ACTTTCTATC AGGAAGCATC TCCATTGTAA ATATGTATTT NCATGTTTAT TACAAAGACC 240
 CAAATGANAA NTTTTNNGTC CATTTTNGC ATAGCCTAAT GGTAGACTNG GAATAANAGT 300
 TCTGTATTN TGGGATTTC NGNGTATAAN NCTGGTTTCT AGNTGGGGCG TTAAGTCCCN 360
 TTTGGGTAAA NN 372

SEQ ID NO:4605

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05461

SEQUENCE DESCRIPTION:

GATCATGTAG GACGCGGCAT CCTGCCCCTG GTAGAGAGGA CGAATGTNCC ACACCATGGT 60
 GTCTACGAAA AANAATAGT TAGTCACCTT CTNACCTTCT CCTCTTTCTC AAAGCCTTCT 120
 GTCCCTGGTT TTTGCAAGTN CTGCATTTC GCGGAGAATC CGCGTTGCCT ACTGCTGCCA 180
 CCTCCTGTNC ATTTAGAACT ATGCAAAGAC TCCGNTTCCG TTTTCCTGAG CTCCTNGGGC 240
 CCCAGAGTCT CTGTTTGATT ATTTATTAT TTATTNAGN 279

SEQ ID NO:4606

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05462

SEQUENCE DESCRIPTION:

GATCGAATTT CACATTGTAG AGATGTATAG CTGTGATTAA GCTGCAATG TATGCTGGGA 60
 AACGGCTTGA GTGGATGGCT AATATAAAG TTGTTGGCCA TAATGCCACA CCTCTCATCT 120
 GCTTGAAATA TGGACCAGTA TTCTAAAGTA TCAGCTACTG GGGTCTCATT CACTACAAGA 180
 TAANTTCAA CTTCACAGNA CTTTGACGCA GTTCACCACC AGGCGGGACT GTGTCTGCAA 240
 ACTCNCTTGT CTTCACAGAC GNCTGATTAA NGCNANNCT CTGGNNTCTC AAAGATNTAT 300
 TGGGGAGTGN NGGTTTTNTG GGNN 324

SEQ ID NO:4607

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05464

SEQUENCE DESCRIPTION:

GATCACAGAC CTAAGGCCCA GGCCACCTNT CCANACCTGG AATCTATGCA NAANTAATTT 60
 CCCCTTAACC TGGGAGGCAG CGACACGTGT NACTTCTGTA AGAAACGTGT GTACGTAATG 120
 GAACGGCTGA GCGCCGAGGG CCACTTNTTC CACCGGNAGT NTTCCGATG CAGCATCTGT 180
 GCCACCACCT TCGCCTGGC CGTCTACACC TTTNANTGCN ATGAN 225

SEQ ID NO:4608

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05465

SEQUENCE DESCRIPTION:

GATCTAAATN CAGACTNNGG AGTTGGGAGG AGGNACCAAA GTGAACCATC CTTCATTTAT 60
 TCAGTCATTC GTTCATCTGT CAAACACGTA TTTGGACATC AAGGTTGCAG AGATGAACAA 120
 TGCATGGNTT TCATCTTTNA GGAGTTCAAA ACCTAGTGGA GAGANCACAT GGTACAATCG 180
 TAACACATGA AGGTCAAGTA AGTNTGCAG TAAAGGTACT AATAACATGT TCCTTGGNNC 240
 AGNAGGATGN N 251

SEQ ID NO:4609

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05466

SEQUENCE DESCRIPTION:

GATCCAAGTG TTGCCTGTCA GCAGAGATAG GAGTGAAGTT GATGATGATG GTTAGATGGC 60
 CTCACAAGGG ACTCTAGTGA TAGTAAAGGT TCCAGTGGCA AACACACAAG TGAAAAGTTT 120
 GAATATAGTT TCATAATGTT TGAGAGTGTA AAAAATGCAT TTTTAAATTA ATACATTACT 180
 TTCTGTACTA TTTTAAATAA GTGTGTATCT AAATAAACAC ATAANATGTT ATGAGTAAA 239

SEQ ID NO:4610

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05467

SEQUENCE DESCRIPTION:

GATCATCCTG GCTGGGAGAA GTGGGACCGA GCCACCCAGC TNCACATCC CCAAGCNGCG 60
 CTACAGCCGG GATGGGAGGC ACGTGGCCTC TCTTTTATCC GTCTATTTAT NTTGTAAGTG 120
 TATTCGTGTG GAGGAGGTTG TTGCTTTATT TTTTAAAGGC TCTGGAGTNT TGTGTATGGT 180
 TTCTTTTCAC ATCNGGGCNT CCCATGGGCA CTTCTAAGAA GAGAGGGGAT TTCTTTGAAA 240
 AGGAGAGAGG AATCCCCTAG AGCAGGGGAA GCANTGCCTG CCAGCTNTTG TGCACCTTNC 300
 GGGNGAANTT AAATATNCNN NAAATTTTCA AACCAGNGAA AANN 344

SEQ ID NO:4611

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05468

SEQUENCE DESCRIPTION:

GATCTCTCTC TCTCTCTCCC TTTCTCTCT CTCTGTTGGA TGCTTCTGTA TCTTTTTCCA 60
 CAGCATAATG TCTGGTGTGA TGGGGAGCTA TTTATTGAAA TNAAAGATTA TNTATTTGTG 120
 CCATGAAA 128

SEQ ID NO:4612

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05469

SEQUENCE DESCRIPTION:

GATCCATTTT TGGGATAGAA TTGTATTTTT TAAGTCATTT TTTTTCTTG AAATGGATAT 60
 GTACAAATAA AATAAATGGA AGACAGGATA AA 92

SEQ ID NO:4613

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05470

SEQUENCE DESCRIPTION:

GATCCAACAC ATTCANGTCA GTAGAANCAA ACCAAAACAT GCAAGCTTCA GCCTGNTCGA 60
GTTCTATAGT TGTCACCTAA ATCGTATGTT GTATGATACA TANGGTTATG TATTAGCNCG 120
TAGCCGNGGN 130

SEQ ID NO:4614

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05471

SEQUENCE DESCRIPTION:

GATCACAGCT NCCCTTGAAT CTCATTGCCT CAGAGAAGAC TAGAGGGCTC TTGGACTATC 60
CCTAGGGGCTA CACAAGAATA GTTCAGCCTT CTGCCATGCC ACACAGCCTC AGCTTGAATC 120
TGGTTCATTG CGTCCTCGTG TTCTTCTCTC ATCCTTGCCT TANACCAGGG ATTCTGATAC 180
CGAAGAAGAG GGGCCAATGA AAACCATGGA GTCTGTTCTG GACTCCCAGG GCTGGGACAT 240
TATGTAGGAG CCACTTCATA AACATTCTCT TTA CTCAA 279

SEQ ID NO:4615

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05472

SEQUENCE DESCRIPTION:

GATCAGTCAT GTGTCCGTAA CCTCGTTCCA TGACATCAGG ATAGCTGTGT TTGCACACCA 60
TGCTCCATGT NCATTGGGAG CCAGGAGGGG TTCTNAGTGG AGCCTGGCTT AGGGAACAGG 120
GAGCGATGGA AGAATGCCAA CATTAGCGTT GGTCTTCTCT TGTNAGGAAT NAAGGATGCT 180
TGCACACATG CACCCCTCA CTCTCACACT TGCACACATA CACACACACA CACACGAANA 240
TGTTGGTTT GTCAAANCTC ACTGTAGTAC ATAAAGNTTG CACTCTGNGT NNNNATATCT 300
AGCNGNATGG GGGGTACGNT TTGGGCNGGT GTN 333

SEQ ID NO:4616

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05474

SEQUENCE DESCRIPTION:

GATCTCTTCC CACCTACCCT ACCTACTCCT ACCCAANACC CCCCTTCCCC ATTAATGTGA 60
GTAATGAATT AGCCTGACCA CAGGTGGTCA CTGTAGGCTA ATGGAAAATA CCCAAGGGNG 120
GGCAAAGCCC CCCATCAGAT GCATGAAGGT TTGCNAATGT TGACTGCCAC TGCCCCACAC 180
ACTGTGTCTT TATAGANTTN CCCTTTGCCN CACCCTCTTC CTGTNTCCAA CCTGGGACAC 240
ANCTTNGCTC AAAGNGCTGG TGGNTTGTGG GGCATTAATC TACAACCANA GTCCTGAATG 300
GAGGCAAAGA GGGCCCCACN GGNTTTGNGG GGNTN 335

SEQ ID NO:4617

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05475

SEQUENCE DESCRIPTION:

GATCCATTCA CATTGCAAAC TTATCCTACT GTATAGCCAT CCATTGTAAG AATACATTTT 60
TCNATTATA TTGTGTACAT TACTCCAGTG AACATTCTNN ANTCCTCTT TTNGTATCCT 120
GTGCAAGANT N 131

SEQ ID NO:4618

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05476

SEQUENCE DESCRIPTION:

GATCTCAGCT ACGTGGGAGG CTGAGGCAGG AGAATCTCTT GAACCTAGGA GGCAGAGGTT 60
GCAGTGAGCC AAGATTGTNC CAGCCTGGGC GACAGGGTGA GGCTCTTGTC TCAAAAAAAA 120
AAGTCCACAT CTTTCATGANC CCTCAGACTC TGGAGTTGGG TGTGGGCTTT TTAGCCAGN 180
TTTTGTGGGA ATTGCCTTTN NCCTATTAAA GANGGAANGT GGGTAATGGA GTCCCAGCCA 240
CTCANGAGNC TGGNTATCCC CCGAGANTGG CTTGGGTTAC CAGCTATGGA CCCTTGAAG 300
ATGANTCTAN ATCCTTCTCA CNN 323

SEQ ID NO:4619

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05477

SEQUENCE DESCRIPTION:

GATCACCTCT CTGTATCCCC CACCCACTAT CCCATTTNCC CTCCTCCTCA GCTAGGGCCA 60
CGCGGCCCCA CATTGCACTT CTGGGGGGTG ACCGACTTCG TACACGGGTT TAAAGTTTAT 120
TTTNATGGTT TAGTCATTGC AGAGTTCTTA TTTTGGGGGG AGGGAAGGG GGCTAGTCCC 180
CTTCTTTTGG CCTCCGCCC CCGCAGGCTT CTGTGTGCTG CTAAGTGTAT TTATTGTNAT 240
GCCTTGGTCA GGGCCCCTCT ACCCACTTCT CCCAGTAAGT TGTGGCCCCA AGCCCNATC 300
CNTGTGCTGT GTGGAGTGGN CAACCTGACC CCCGNAAGNG GGNNAN 346

SEQ ID NO:4620

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05478

SEQUENCE DESCRIPTION:

GATCTTTTAA AGGATAGACG TGGTCTCATG CTTCCTTTGT NCGACTCCGT TTAAAGGAG 60
CATTGTAACC ACTATCCTCA TCCCTACAAA AATCCAGTGG ATGCACTTCC AAATTACTTC 120

TGTCATTTTG TATGTGTTGT GTTTAGGGNT GCGTAATTTT CACTGGATGN TGAGATACAT 180
 GGTGATACTA TGTCAGTTTA TTCTCTGTGA ATATGTCTGT ACATAGNCAG GAAGCTCTAC 240
 TTATTTGTNC ATAGGCTGTC TGANGTATGT ACTTCTGTCA CATGGNCTTC ATTCTGATAA 300
 AGGGTGTTTC TCCCTTGNTT CACTGTCCAT ACCTTGTGN NGN 343

SEQ ID NO:4621

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05479

SEQUENCE DESCRIPTION:

GATCCTTCTG TGCTTGCTTG CATCTTTAAT AAAGACATGT TCCCGGCAAA 50

SEQ ID NO:4622

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05480

SEQUENCE DESCRIPTION:

GATCCAGCTA GGCTGGGACA CTCCTAAAT CAGCTGCGTG TTGTTAGCAT CAGGCAGAAT 60
 GAATGGCAGA GAGTGATTCT GTCTTCATAG AGGGTGGGGT ACTTCTCCAT AAGGCATCTC 120
 AGTCAAAATCC CCATCACTGT CATAAATNCA GNGGNAATNG NCTGNACAAA 170

SEQ ID NO:4623

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05481

SEQUENCE DESCRIPTION:

GATCCTCTCT GTGTAAATCC TGCCCGGTGC TGTNAAGGCT GGACGGTGGA GGACCTGCTG 60
 GGGTCTCCTG GNACCCGCCT GTTGCTTCTN CCCTCCCCTG TGGAAGGTC TATATNACGG 120
 GCTGCCTGAG GCCCCAGAAC TCGTCTGTAA ACCACCTTTT CCAGCCAGAG TTCCCAAAGC 180
 TGGAACGCTA GCTGCCTGCT CTTCTTAAG NTGGCCTCCC CCNGACCCGT CANGGTCCTC 240
 AGTTGCCAGG GCTGGGGCCA NCCACTGTNA CACTGNGGNN TGCANGANAN 290

SEQ ID NO:4624

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05482

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTCTGTCCC CTTGGATGGG GAACTAAGGG AAAACGTCTG 60
 TTGTATCACT GAAGTTTTTT GTTTGTTTT TATACCGTGT CTGANTAAAA ATNCCCACNG 120
 TTAAT 125

SEQ ID NO:4625

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05483

SEQUENCE DESCRIPTION:

GATCCTGACC CCAGCCAACA GCTGAGCTGC CGGGCCTCCT CGAGGCCCTA AGCCAGCCCC 60
 AGAGGTCCCA TCTNAAGCTG GAGTACCCTG GGGTCAGCAG CAAGAGAAAG AAGNGGAGAT 120
 TTTNTGTTN TTTTCCCCT CAGCCCTGCC ACCGTGGGA GTCTGGTTT TNTCTTCATC 180
 CTGTCTCTCT CCTCCTTACT CTTGGATAAA TAAACAGCCT GTGAGCACAC AGGCAAGCCC 240
 GGCCAGTGA AA 252

SEQ ID NO:4626

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05484

SEQUENCE DESCRIPTION:

GATCGTNACA AATCNCCT CCTCACCAGC TAGTCTGGGG TTCTCTCTCC CTGCCCCAGG 60
 CCAGAACTGC CTTCTTCATT TCCACCCAGC CTCCAGCCT CTTAGCTGAA AGCACAAATG 120
 GTGAAATCAG TAGTCTCGNT CCATCTNNA TAGACTAAAC CTAAATGCCT CTAGGACGGA 180
 CTGTTGCTAT CCAAGNGTT GGTGTACCT TCTCCTGGGA GGTCTGCTG CAAACTCAAG 240
 TTCCNCAGGA TGGTCAAGNT GTCANGANAT ACAAGTTTNC ATCAATTGTA ATTATTACCT 300
 GGTCTTTNCA ANTTGCAAN GGNGTTTGG GNTN 334

SEQ ID NO:4627

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05485

SEQUENCE DESCRIPTION:

GATCTTCAT CAGGGCCGGA GTAAATCCCT AAGTGNTCA ACTGCCCTCT CCCTGGCAGC 60
 CATCTTGCC CCTCTATCC TCTAGGGAGC ACTGTGCCA CTCTTCTGG GTTTCCANG 120
 GGANTGGCT TNCAAGGTNG GNGTNTCTGT AAAATCAACA GGTAATAAAA ACTGTGTATG 180
 AGNCCNGGCA AA 192

SEQ ID NO:4628

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05486

SEQUENCE DESCRIPTION:

GATCTACAAT NAGATATCAC TTAACACTCA CTGGAATAGA TATATAATCA AAGTGATAAT 60
 ATCAAGTGT GGNGAGGATG CAGAGAAAT GGNACCCTCA TGCAGTTG GTGGATACCC 120
 ACGTGATATN AAAACAAATG TCTACACAAA AACTGTGCA CAGATGTTCT TTGCAGCATT 180

ATTATAATA GCCAAAATT GANACAGCCC TANTTTCTAT CAACTNACAG GTGAATAATC 240
 ANAACGTGGC ATATCCATNC ATGGNGTATT ATTCAGCATT ANANNATGGG ATGAAGTACT 300
 GGTATGCACC ACTCN 315

SEQ ID NO:4629

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05488

SEQUENCE DESCRIPTION:

GATCTGAAAT NATGGTTCAA AAAATACATT CATAATAAAA GTCTTAACAA A 51

SEQ ID NO:4630

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05490

SEQUENCE DESCRIPTION:

GATCAATGCC CNTNTNTCAG TCTCATCTGT ACTCACGGCA GCCCTGTGGA GTACGGTGTA 60
 CTGGCCCAGC TTACAGATGC AGAAAGCGAG ACGTTCTGCC ATNAGATAAA GTCACGTGGC 120
 TCTTTAGTAN CACGGACAAG GCTCCTCGCC AAGGAACTCG TGGCAGAAGA GGGCAGCAGT 180
 TGGCAGTAGC TGCCGATGTC TGTCCCCAGC TNCACCATTC CTCCCTGTGG CTGTGCCATG 240
 CTCGTGGTTT CAGTNTCCGT GTGTNCATGT GNCTNCCCTT NAAGAGCTCG CANCTGGTGT 300
 GCTTNGGGGG TCCCAGGGCT GTGTAGNGTN TTCTNCN 337

SEQ ID NO:4631

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05491

SEQUENCE DESCRIPTION:

GATCTGTCTA TTTCGTTTAT CCATAGTTGC CTNACTCCCC GTCGTGTAGA TAACTACGAT 60
 ACGGGAGGGC TTACCATTTC TTCCCTGAAA 90

SEQ ID NO:4632

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05492

SEQUENCE DESCRIPTION:

GATCAAAGGC TCTTCTCTCT TTTGTTTGTAG AGTTGGTTGT TTTAAAGCTT AATGTATGTT 60
 TCTATTNAA AATAAATTTT TCTGGCTGTG GCAGAAA 97

SEQ ID NO:4633

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05493

SEQUENCE DESCRIPTION:

GATCATCGTA TGCAACAGCT GGGTAATAAG ACTGGCATAG CTCAAACATAT CCTGCCAAAC 60
GCTCTCATCT GATTTTCCT CCCTTCTCCC CCAACCTCCA ATCACCCTGA GTCACCTGTA 120
AATTCATTG TCATTCAAAG CGGAATAACA AGTTGTCCCT AGCAAAACCG CTGAGCGCTT 180
TATAATTTG TGGTGTATTT TTGTCAGTAG GTAGCAGAGG CGGAAGTATT TTTTGGTGTA 240
ATTCTTGAAA TTTTCTGACA GGAACCCGN TAAAGATAGA TGTGTCTGAG GNTAAAAAN 300
GTTNGGNNNG NNNTGNTTTN 320

SEQ ID NO:4634

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05494

SEQUENCE DESCRIPTION:

GATCTATGAA ATAGGTAACA TTTGAGTAGG TGTCATTAA ANATAGTTGG TGAATGTCAC 60
NTATGCCTTC TATGTTGTTT GCTCTGTAGA CATGAAAATA AACAAATATCT CTCGATGATA 120
ATTTGTATTA AGTAATCTAT AAGAAA 146

SEQ ID NO:4635

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05495

SEQUENCE DESCRIPTION:

GATCTATCCA GCTGCTTCCT TGTAGCCAAG AATGTGTTCA ATGAATTGTG ATTCACTGAT 60
TTTATTGATT TTGTTTTAAA ACAGGGAGAC TGGTATTTTT GAAGCTGCTA TCATTTTCTA 120
TTTCTNTATT AATNNCTTG TAATCATCTT ATTAAAGTTT TCTTATTTAG TGGGAAA 177

SEQ ID NO:4636

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05496

SEQUENCE DESCRIPTION:

GATCCTCTCC TTGTATGTAA TACCTTTTTT TCCCCTTTCT AGCAAGTACT TTCAAAAGAA 60
CTCTGTACAT TTAAACATAA AAAATAAATT ATGTTGAGCC AAA 103

SEQ ID NO:4637

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05497

SEQUENCE DESCRIPTION:

GATCCATTG TAACTACTCT TAATATATGG TACATAGTTT AAAAAATTTN ATTGAGCTTA 60
 AAGTGTATCT AGTTTTGTGT CCTAATTATC CTGCTTAACC TTCTATTGTA AGGNTTTNCC 120
 ACGTCAATAA ATATTATAAT GTAAA 145

SEQ ID NO:4638

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05498

SEQUENCE DESCRIPTION:

GATCANCAAA CTCAACACCA TCTTGCAGGA GCAACGGGNT GGCCTTTAAC ATTGCTGAGG 60
 CTTTCAAAGA TGTGTCAGAA CCCATTGTAT TTCTGCAACA GATGCAGGAG TTTAGAGAGA 120
 AAATCAAAGT AATCAAGGAA ACTCCTTTAC CTCCTCTAA TTTGCCTGCA AGCCCTTTAA 180
 TGAAGAACTT TGATACCAGT CAGTGGGAAG ACATAAACT AGTCGGTGTG GATAAACTTT 240
 CTTTGCCTCA AGACACTGGC ACATTCATTN GCAAGGNTN 279

SEQ ID NO:4639

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05502

SEQUENCE DESCRIPTION:

GATCAGAGCA AAGAGAAAAG AAAGCATAAG GACACTTACT CAACAGAAGC ACCTTTAGGC 60
 GAAGGAACAG AACAATATGT CAATAGTATC TCAGATTGAC CATTTCTGTT ACTTGTCATT 120
 TCTACTTTCA GAAACTAAAT GACTTTCAA TTTGGGTATA GACAATAAAG AACTGAAGTG 180
 CTCACTACTC AGTGATTTGG AAATTTTGAT GCTTGATATA ATGTCAGATA ATTAATTCN 240
 AN 242

SEQ ID NO:4640

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05503

SEQUENCE DESCRIPTION:

GATCTTGTTA GACACATGAA TGTGTATAAT CATGTAAAT GCAAATAAAA CTAGTTCATA 60
 GAAA 64

SEQ ID NO:4641

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05504

SEQUENCE DESCRIPTION:

GATCATNAAG GTAAGGACTG GAGTNATGCA GCCACAAACC AAGGAATATC AGTAGCCATA 60

AA

62

SEQ ID NO:4642

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05505

SEQUENCE DESCRIPTION:

GATCAGTNCT AACCTGAGC TGGCGGCTAT CTTTGAAAGT ATCCNGAAAG ATTCATCATC 60
 TACTAACTTG GAATCAATGG AACTAGTTA GATGTTGTT CACCATGGGG ACCATTACAT 120
 ATGACCATAC AATGACTGA ATTGACAGGT TAATCATAAG ACATGGAAAG AGAAGTGTCT 180
 AAAAGCTTCA AAATGTTCCA CTTTTTTTT CCTTCATGGN GACTGTTTGT TTGGCTTTCT 240
 TCCATTGTNG TTTTGTAGC ATTTATTCA GAAATGTGA TTTCCATAAT CCAGAGGTTG 300
 TAAACCACT AGTGTTTTAG TGGGTACAG CACCATTTN 339

SEQ ID NO:4643

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05506

SEQUENCE DESCRIPTION:

GATCTTCCTC CTTATTTTAA TGCTTCTTC TCTTTACAAT TAAAAGTTCA TAAAATCTTT 60
 CAACATTAAA 70

SEQ ID NO:4644

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05507

SEQUENCE DESCRIPTION:

GATCAGCCCT AATNATGCTG TGTCCATGAT GCTTTTAATA AAAACAACCC CCACAAA 57

SEQ ID NO:4645

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05508

SEQUENCE DESCRIPTION:

GATCTCTATG CCAATATGC TGCCTCAACT CTGAGCTGTC TGCAAGGCTT AGTAAGTATT 60
 GAGTGGTGTT TTTTTTTTC NTTTTATACA ATACCATNTT AACCACATGA GTTAAATAAA 120
 TTTGAGAAGT TTTTTAAAA CAGTGCTTCA AACTGAAA 158

SEQ ID NO:4646

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05509

SEQUENCE DESCRIPTION:

GATCCCCGGG TACNANTNAN CCATGCAGGC ATGTTTTTTT TNATTTTGC ATAGGCAATC 60
CATTCTGTAC AGGTAGCTAA CTTTGTAAC GCTGTGTATT CCCTCTGCCC CCATGGCTGC 120
TGGTGAAAT AAACGTCATC TCCCGTTGGT AAA 153

SEQ ID NO:4647

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05510

SEQUENCE DESCRIPTION:

GATCCAGAAG TCATTAAAAG AAACATAAGG CTGGGGAGGC AGGGGGAGTA AGTTCTATTA 60
GAAAATCCTA ANAGCTTAAC AAAACTAGGG TACTAAATTC AGTTATAACA TGTACAGAC 120
TTAAATCATA GAGCTGCCCC AACATCTAGA CAGTCTCTCC TACTGATTAT AAATGAGTGA 180
AAACTATCAG TTAGAAAAAT CTAATTTAAG TTGTTAATAC ATGTTTCTTT GGTGAGCACC 240
TGGATATANT TATCACAAAT NCTTTTATAC ATATGTCGAA AATGCTTTCA ACAAACCTAA 300
GTGTCCTAAT TACATGCCAC TTTTNNAGG CTCACCTTAT GN 342

SEQ ID NO:4648

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05511

SEQUENCE DESCRIPTION:

GATCGCTACG GTTCTAAATA CTGAAGTCAT GATGTGTATT TCCNGGAGAA ATTCCTCTTT 60
AAATGAACAA GTAACCACAT CTCAGGCGGC AGTGAAGTCC AGATAGTTT GCAGATTGTT 120
TTGCTACTTN TNCATATGGT ATATGTTTCT GNTTTTAAAT ATTNCTNTTG AGAAATTCTG 180
AGTNTGATG TAGGAGCTTT CCTGTNATNN CTGTTTCACG TTCCTTCCTG TCACACCCTC 240
CTGTGGCGT CTCTGTGTAT ATCCTNGGCT TTATTTTCTN GGANCCTGN GATTTCACAA 300
CTGNNGGCCT GGAGACCTCG GCTCCTNCTG GTN 333

SEQ ID NO:4649

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05513

SEQUENCE DESCRIPTION:

GATCATGAGA AATTACCAAA ATGTCCACCA ATAGAATGAG TGAATCACCT GTGGTATATT 60
TATAAATAAA AATATTAANT AGAAGGTAAC ACAAATCAGA CATACACACA TTAGATAGAT 120
AAATTTAGAG GAAAAAATAA AAACCATGCA AGNTTCAGCT NCNCGNGTNC TNTGGTGCA 180
CCTAANN 187

SEQ ID NO:4650

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05514

SEQUENCE DESCRIPTION:

GATCGAGGGG GTATGCGTGG GGGAGTTGTG AGTGAGCTCA GCTCCTTTCA GGCCTGGCCT 60
CTCCCAGAAC AGAGTGAAGC CCCTGCCCTG GACCCCTGCT CCCTTCTACC CTTGAGGGCC 120
ACCAATGGAA GAGCCCGCCC TTCATTCTGC AGCTCCTGCG GCCAGGCTGA GCTCTGCCCC 180
CAACTTTGTT TTCTCTCATG TTCTCAATAC ACTCTGCCTC AAATCAAA 228

SEQ ID NO:4651

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05515

SEQUENCE DESCRIPTION:

GATCTGTAGT TAAGGGAACC AAGGGGTCAT TGGGGCAAAA GCATTGTTTC TCAAAGCTCC 60
TTGATTAAGA GAAAGAACAG AAATTGACAC AGAAGATAGT GTCAAGGAGT GAGAAAGTTT 120
GTTTGAGGGC AGTAGCTCAG TGTGGAAGAA AATCCTGAAG TTTCTGTTGA AGCCATACAA 180
TGTTCTATGG GGTACTCTC TAAGACATTC TCTGAGGTGT GTGAGGAAGT CACTACTCCT 240
AGCCTTTGTT AAGATGTAAT TTAAATATT CAGTTATGGT ACTATGTTTG CAACTCTCTN 300

SEQ ID NO:4652

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05516

SEQUENCE DESCRIPTION:

GATCAGTTTA TATTGCTCTT AAATGATAAT CCTCAGCTTC CAAGTTTTTG TGAACCTACT 60
TTGGTTTATG TGTTTGCTAC ACTCACTGAG AAATTAAACA CCTTGCTTGA TTTATTGTAA 120
AAAGGAAAAA ACAACAGAGC CATACTTAAG CAAA 154

SEQ ID NO:4653

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05518

SEQUENCE DESCRIPTION:

GATCTTTATG CTGTTATNAC AGGAGAAGTG ACATACTTTA TATATGTTTA TATTAGCAAG 60
GTCTGTTTTT ANTACNATAT ACTTTATATT TCTATACATN TATATTNCTA ATAATACAGN 120
TATCACTGAT ATATGTAGAC ACTTTTAGAA TTTATTAAAT CCTTGACCTT GNGCATTATA 180
GCATTCCATT AGCAAGAGTT GTACCCCCNC CCCAGTCTTC GNCTNCCTCG GGNTTAAGCT 240
GTTTTATGNN 250

SEQ ID NO:4654

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05519

SEQUENCE DESCRIPTION:

GATCCCCACC CCAATTCAAT CCCGGAAGGG ACTTACTTAG GAAACCCTTC TTTACTAGAT 60
ATCCTGGCCC CCTGGGCTTG TNAACACCTC CTAGCCACAT CACTACAGTA CAGTGAGTGA 120
CCCCAGCCTC CTGCCTACCC CAAGATGCCC CTCCCCACCC TGACCGTGCT AACTGTGTGT 180
ACATATATAT TCTACATATA TGTATATTAA AACTGCACTG CCATGTCTGC CCTTTTAA 240

SEQ ID NO:4655

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05520

SEQUENCE DESCRIPTION:

GATCCAAATA GTCAGAAAGA AAGGAAGGAA GTGCTGGTAA GAAGGAAGGG AGGAGCGTAT 60
CCTAAAGAAC TACTCCCAAC TATACAACTG TTGTTTCCT CCCAATTTTC CTAGGGATTC 120
CTCATAATTA TCTCCTTCT CTTCATAAAT TCTACTTACT GACCTGAAAT AAAATTTCTC 180
ATTTGGTTGT CCTCAAGGTG CAGAATATGG ACTTAAGGCT CCTCCAGACA ATTCAAATGT 240
ATTGTAGACA GTTAAGNTAG AGTAAAACTC ACCGTTTTGT CCCACTGAAA 290

SEQ ID NO:4656

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05521

SEQUENCE DESCRIPTION:

GATCGACAGG CATCCACAGT TGAGTATCTC CCAGGCATGC TACATTCAA TTGCCCTAAA 60
GGTCTCTAC CCAATTCTC CACGCTGGTC TTNGGTTAAA CTAGGCCCTG CTAAGTCTTA 120
TAACTTTCAT ACAGTTTGG ACCAACAGGG CTTTATTCCA GGANCAAAAT ATCTTATGCC 180
TTGGGACATT GNCATCAGGA CTAGAGCTGN AGATGAAGGA GACTTAGACA CAAACTCTTG 240
GCCTGCTCCA AATAAGCTA TTCCTNGNAA GAGNAGTGGC GTTGTAAATGG NTAAGAGNGN 300
AGANCGGCGA GATGACATTG NTCGAGCTTN TNNTGGNCTT TGAATATNGA AGTCN 355

SEQ ID NO:4657

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05522

SEQUENCE DESCRIPTION:

GATCCGCAAA CGATTAATTC TGTCAGACAA AGGGCAGCTG GATTGGAAGA AGATGTATTT 60
CAAACTTGTG CGATGTTACC CAAGGAAAGA GCAGTATGGA GATACCCTTC AGCTCTGCAA 120
ACACTGTAC ATCCTTTCCT GGAAGGGCAC TGACCATCCG TGCACTGCCA ATAACCCAGA 180
GAGCTGCTCC GTTTCACTTT CACCCNNGN CTTTATCAAC TTGTTCAAGT TCTGGNATCC 240

CAGCACATGA CAACACTTCA GAAGGGTCCC CCTGCTGACT NGAGAGCTNG GGAATATGGC 300
 ATTTGGACAC TTCATTTGTT AAATTAGTGT ACATTTTAA ACATTGGGTT CGGNNAACTT 360
 TCAGNGGTNA GGTCCGNGNN TN 382

SEQ ID NO:4658

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05523

SEQUENCE DESCRIPTION:

GATCATTAAA AACTTAAAAT ATATTTTATT AGAAAACATT TATCTATGAA TGAATATTTC 60
 CTTGATGCTG GTCTCTGCAC ACATATGCTT GGTACTTGC ATGCATTCAT TGGTTGTTCA 120
 ATAAGTGAGA TGATTACAGA TAACTTAATA CTGTATTTNC CTTATATGGA AAACCGTTAT 180
 AGACCCAATA ACAACTAANC CTTTCAAAAG AAANTATTN CTATTATGAN TGTGATTTT 240
 CATACCNAAG AAGATGGAGA GTCTAAAATT TGGGNTATGG ATNCTNGATG GNNTTTTAN 300
 TNGGNAAGCC TTCTNCAAG TTTNAN 326

SEQ ID NO:4659

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05524

SEQUENCE DESCRIPTION:

GATCAGCTTT GCACTAGATT ATGCTGCATC CTCGTGGCAA AATTCTGTAT TCTTAGTGAT 60
 TGTTACAAAC CCCTTATTG CTGTCTGAGA AAGTGAAAGA TTGTGTATTT CTATTAAAC 120
 ATTTACAATC AAA 133

SEQ ID NO:4660

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05525

SEQUENCE DESCRIPTION:

GATCAACATC CGGAGATGGA TTTNCCAAG GCTAAATTCA ACTAGCCCCT GTTTTTCCT 60
 CCCTGAATC TTGGGGCTGA GCTGCAACCA CCCAACTTC TTCCCACTC TTCTCTGGGA 120
 CTTGTGGGCC TCAGGGCTTG GGGCAGGCAT GGGACTGGCC CAGGCACACA GGTCCCGGGG 180
 CATCAGGAGA AAGGCTGGGT CTTGGGACCT TGTCCTCCCC AGTTGGCCTA CTGTTACACA 240
 TTAAACGAT TTGCCAGNT CAAA 264

SEQ ID NO:4661

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05526

SEQUENCE DESCRIPTION:

GATCACCTNT TCCCTTCAAT CCTTGTGGCT TCTGGGAATC TTCAGAGCCT GGGTCTGAAA 60
 GGTGTTTCCT ACATGTCTCA GGGCTGGATG CAAACCTGGC TGGGGACCTG AGCATCAACT 120
 CCCATTTAGA ATCAGACATC TCCCTTCCCT GCAAATTGTC TACAACTACC AAATTGCTCC 180
 AGGTTTGAGA TGGTATTGCT AAATTTAAAA TTAACAAGN GACCCANCAN CAGCTTTTAA 240
 AAGTGTCTNC TATTTTCATNN GTATTTTNTT NAACCTTGGC CCCANTTGNT AGAAAAGTCT 300
 TTTGCNGAAA TGNATTTNN 319

SEQ ID NO:4662

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05528

SEQUENCE DESCRIPTION:

GATCAAAACA GTGTGGTGCT GGCAAAACAA GAGACATAAN TCAGNAGAAG AAAGAGTCCA 60
 GAATTAGACC CACACACATA TGGACAATTG ATTTTTCAT AAGGGCACCA AAGCCATTCA 120
 ATGTATAATA GAGAAGACAG TTTTTCAT CAAACAGTAT TGGANCAGTT GNNCANNNTAC 180
 AAAAAGTAAA CTTCANCCCA TACCTCACAC TATATCTAAA ANTTAGCATC AAATGGNTN 239

SEQ ID NO:4663

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05529

SEQUENCE DESCRIPTION:

GATCTATTTA GTCCTACAAA TCAGGAGTGG TGTAGAGACA TCCAAATTTA AAGAAAAAAA 60
 AACACAAA 68

SEQ ID NO:4664

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05531

SEQUENCE DESCRIPTION:

GATCGAGTTT TAAATTGATA GGAGGGAACA TGTCTAATT CTNCTGTCCT GAGAAGCATG 60
 TAATGTAAAT GTTATATCAT ATGTATATAT ATATNTNCNC TATGTATATA CATATATNTN 120
 AN 122

SEQ ID NO:4665

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05532

SEQUENCE DESCRIPTION:

GATCAGGGAC GGGGCTGAGC TGGAGAGTGT GCAGGATTGA TTAATGATGT CTGCCACGGT 60
 CAGGCCAACT GCTGTGTTTC TGGGGCCAC AAGCTAAAAA TGGTTGGAAA AAAATCAAAA 120

CATTAATATT TGTGACATAT GAGAATGCTA TGAAAGTCAA CTTTGCTATC CATAAATAAA 180
GTTTTATTGA CATAAA 196

SEQ ID NO:4666

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05533

SEQUENCE DESCRIPTION:

GATCAGATTG CTCAACTCCA TTATAATTTG TTTCCAAACT AATCTGTTCA GGCAAGATAA 60
AGATATAAAT GTGGATTGTT GCTGAGGTTA AGTCTGGTCA GATTTTNCCA NTTATGCTTG 120
AAAAGTAACC ATATTTCAAT CAAATATATA ATATGTATAT NTCATAATAA TATANGCAAT 180
ATTAGTCTCA TTATTAATTC AAAANTCTCA TCTATATTTT ANCACTGTAG AACATTATTA 240
NNTGANTAAN TGACCTATAA NTATTGGTG CCTGANGAAG TCACTTTGCT ATTANTNATA 300
CGGTGTAGNG TGTGGN 316

SEQ ID NO:4667

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05534

SEQUENCE DESCRIPTION:

GATCTCAGGG AAGCCTGGGA GTCCCTTCTC ACCCCTCAAC CTCGGGAGTC CAGGAGAACC 60
CGTACCCCCA CAGAGCCTTA AGCAACTACT TCTGTGAAGT ATTTTTTGAC TGTTCATGG 120
AAAACAAGCC TTGGAAATAA ATCTCTATTA AACCGCTTTG TAACCAAA 168

SEQ ID NO:4668

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05535

SEQUENCE DESCRIPTION:

GATCATCCCA TCCTTGACCA CAGGGACAAG AGGGGCCCCC TCGCCCCAGC CCCACCCAC 60
ATGGAGCTCA GGGGAAGCA GGGAGGGGT CCCTGCGGAG GCTAGGAGTG 120
GTTCTTGATG CTCACCTGAA GCCCCTAGAC GCTGCTAGGA GGGGGGGCCC TCCTGGGCCC 180
NAAATACCCN TCCGCTTGCC GCTGCTAGCG NACCCCTGCA GTCCAGCGTG CATCCACCCC 240
ACGNACGTCC CGTGCTGTGT TCCTGGGCCN TGTCCATGGC CTNAATAAAC TCTCTGCTTG 300
GGTGTGACAA A 311

SEQ ID NO:4669

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05536

SEQUENCE DESCRIPTION:

GATCGCAAGC TGTGATGCA CAGGCGTCTT GTTGGCAAGC CCAGCTTCAG TTTATGTTAG 60
 ACAATCAGTA CACATGCTGG TGTGTTTCC AATGGCCAGT NATAAGAAAT TAAATAAGTA 120
 TTTGTGAGAT TTGCTATTTT TTAATAAAGT AATTNTTTA AATTAAA 167

SEQ ID NO:4670

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05538

SEQUENCE DESCRIPTION:

GATCTCATAC TTGTATAGAG TAATAACAAC AGTTGTACTT CCACCAAAGG CATGTGGCAT 60
 ATTTACCAAT GTCATGTATT CTGAACAAAG GCAAAAAATA CAAATTCCTA CCATTAAA 118

SEQ ID NO:4671

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05539

SEQUENCE DESCRIPTION:

GATCCTTCAA ATAGGCCCTG AGATGTGAGG TCTGCTGCTT CACTGGGGCC CGATGACTTT 60
 GGCTGGGGGA GGGGGCCTAG GGCTCTNCTC ATTGAAAGCT CTGCTTTATA CAGACCCAAG 120
 CATAACACAC AGGCCGTCAC TTTGGGTCTT GGCATAAGTT CAGAACAATT CAAGTCCATG 180
 TGTCCCATGG CTGGTCAGAG CCCTGGGTCA AAACCACTCA GCCCAGGGGA GGGGATGAGG 240
 CATTGTCACC CTAGACCCCT CTCCTCTCT CCCNCACCAT AGTGTGCAAT AAAGTGTCTG 300
 TTCTTACCAA A 311

SEQ ID NO:4672

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05540

SEQUENCE DESCRIPTION:

GATCTTGTCAGAGCTGCACC TCTCTGTGAA CTGGCCATTC CTTTCGGTGC TGCTGTCCTT 60
 TTTGGGGGGG TTCCTGATTT CTGTATACAT GTAGCTTTGC CAGATATGTA CTTAGTAATA 120
 TAAACTGTAT TAATAAAATC CATTTACTGT GTAATACACG AGTTTAAAAA TTAAGAGCGA 180
 TTAGCTGTTC ACTTTGGTAA CAGGTAGTTA AGTGTACAC AAGGTGTTGT TGCAATGGCA 240
 TGACGGTGAC CTGTTGGNGG NACTAAGCCT TACAGCAAGG CATGTGCCGN ACGTGCTCCG 300
 TGGTACTTAG AGCCCTGGGG GCCCGNTCG GACTCCGN 338

SEQ ID NO:4673

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05541

SEQUENCE DESCRIPTION:

GATCTGTTTA CAAGGTTTGT AGATACTTTT TTTGTTCTG TTCATAGATG GGAAGCTTCC 60
 TTATAACTGA TGCAGAGAAA AATTAGTCCT TCAAATACTG CTGTATTTTC AGGAAAN 117

SEQ ID NO:4674

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05544

SEQUENCE DESCRIPTION:

GATCAGTGTT GCTAGTAGCT TGGCAGCTCT TCATAAAAGC ATATTGGGTT GGNAAGGTGT 60
 NTGCNTATTT TTCAAATNAT TTAATAGATG TNTGGTACCA TTAAAAGTG GTTGTGTCTG 120
 AATTTACTGT GGGGATAACA TACACTGTAA TGGGGAAAAA TTACCTAAAA CCAATTTCAA 180
 AANGGCTTTC TNTGTATTTT AGTTTAAAAA CCCAGTGCAT GATNCGCCCT CTGGAGATGC 240
 AATAAACNCC TTNGTGCCAA AGGNGATTGC CNGNGGAGN 279

SEQ ID NO:4675

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05545

SEQUENCE DESCRIPTION:

GATCTGTAAT AAAATAGTAT ACTGGACTGT GCATCAAAGG GATGTAAAAT TACAGTATTC 60
 CAAAGGTTGA AGTTCTGCTG TTTTGTATA ATGCCTGATA CACATCTTGA ATAAAGTCTT 120
 AACATTTTNC TTATAAA 137

SEQ ID NO:4676

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05547

SEQUENCE DESCRIPTION:

GATCATAAAA ATTAATGT GAATGTCAAC AATAAAAAGC AAGACTATGA AAGGCTCAGA 60
 TTTCTTGCAG TTAAATGG TGTCTGAGGT TGTNCTATTT TGGCCAAGTC TGTAGAAAGC 120
 TGTCATTTGA TTTNATTAT GTAGTTCATC CAGCCCTTGG GCATTGTTAT ACACCAGTAA 180
 AGAAGGCTGT ACTCAAGAGG AGGAGCTGAC ACATTTCACT TGGCTGCGTC TTAATAAACA 240
 TGANTGCAAG CATTGGAAG 259

SEQ ID NO:4677

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05548

SEQUENCE DESCRIPTION:

GATCATCATG ATGAGTTTTG CCTTATGCCT TGAATCTTNA GGTTAATAGT CATAAAATCC 60
 CTGCTTTCTA AATTCGCATT TTTCTGGTG TACCNTTAAT GTGAACNTTT TGGCATTCTT 120

CTGCAATNTT CTGATTGGAG ATTGCATTTT GACCTAGTCT GTAAGTTTTT CTGTCAGAAG 180
AGGACTTTCA TCAACTTTCA NGGNAAGATT GTTTATTGGC ATACTGTAAA GTTAAGTNAN 240
GCANTTTNAA AGTNGTCTAA A 261

SEQ ID NO:4678

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05551

SEQUENCE DESCRIPTION:

GATCCGATTT TACCTTGGAC CCCTGCGTCT TGCCCCTGGG AACCCANATG GGGACTGCTC 60
TGAACCTTTG GATGACATNT GTGGCCCCGG AGATGTTCTC AACCCAGGGG TGCCCTTCGT 120
AAATGTTNCT CCATCCTCAC TGTACCAGGA GTGTGTGAAT AAACACAGAC CCCCTCTGTG 180
AAA 183

SEQ ID NO:4679

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05552

SEQUENCE DESCRIPTION:

GATCCCAAGT ACGTGGAAGT CATCAGAACC CCACGGTACT TTGAGTACCT CTCTGCACCA 60
AGATAGCTGA CTGNTTTTCT GCTCAGTCAC AATTTTACTT GNAAGCAAGN ATTGTCCTAG 120
NTCCTNTTCC ATTATTCCAA AACGTTTAAAC GTTCAAAGCA GGGTCTCATT AAAANCCCAA 180
CTACTGGTTG ATATAATTGA GATATTACAA TTTCAGAATA AACATTTGAT TAAA 234

SEQ ID NO:4680

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05553

SEQUENCE DESCRIPTION:

GATCAGAATC TTCAAGAATC AGTTAGGTTC CTCACTGCAA GAAATAAAAT GTCAGGCAGT 60
GAATGAATTA TATTTTCAGA AGTAAAGCAA AGAAGCTATA ACATGTTATG TACAGTACAC 120
TCTGAAAAGA AATCTGAAAC AAGTTATTGT AATGATAAAA ATAATGCACA GGCATGGNTA 180
CTTAATATTT NCTANCAGGA NAAGTCATCC CTATTTTCCTT GTNTTACTGC ACTTANTATT 240
ATTNGGTTGA ATTTGTNCAG TATAAGCTCG TNCTTGTGCA AAATTAANTA NATATTNCTC 300
TTACCTNATA NCANAN 316

SEQ ID NO:4681

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05555

SEQUENCE DESCRIPTION:

GATCATCCTG GAATCCGACT CTGTCTCAGC TCAAGGGGGT TCNGAGATTT CCTAAGCTAG 60
 CCCTCTCATT TTACAGCTGC AAAACGGAG GCCTGTTAAT TCAGTCATTT TATGAAATCC 120
 TTTGAAATTT TTATTGAGCT CTAATTGTGT GTGAAGTATT ATGGAATGCT TCTGTACTGG 180
 AATGCATAGG TTGAACAAGA CAGAAAGGCC CAGATGGCAG AAGTTCAAGA NCTTTCACCA 240
 ACCCATATAG NGAACCTAGT AATATTAATG ACTAATGTTA ATGGANTCCA TGCTTTGTGA 300
 CGAN 304

SEQ ID NO:4682

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05556

SEQUENCE DESCRIPTION:

GATCAAATCG GAGTACTTAG CATATCTATC ATCTCGTGCA TTTATCATTT CTTTGTGGCG 60
 AGAACATTTA AAAATCCTAT TTTCTAGCTA TTTTGTAAATA TACACTACCT TACTGTTGCG 120
 AACCATAGTC ACCCTACTGT GCAATAGAAC ACCTGAACTT ATTCCNCCTA TCTAGTTGTA 180
 ACTTNGTACC CATTGNCCCC CCNTCCCTNC CTCCACTCT CCCCTCCCCA GNCTCTGGTA 240
 ACCACTGTTT TGTCCCTAT GAGATAAAAC TTTTTTTGNC TTCCAAA 287

SEQ ID NO:4683

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05558

SEQUENCE DESCRIPTION:

GATCTTTTGA AGATTGCTGG AATACTGGTG TCTGTTAGAA TGCTTCAGAC TACAGATGTA 60
 ATTAAAGGCT TTTCTTAATA TGTTTTAACC AAAGATGTGG AGCAATCCAA GCCACATATC 120
 TTCTACATCA AATTTTCCA TTTTGGTTAT TTTTATAATC NGGTATTGCA TTTTGCCTTC 180
 CCTGTTTATA CCTCAAATG ATTACATCCT CAGTTTAATT CAGAGAGGTC AGTTAAGTGA 240
 CGGATTCTGT TGTGGTTTGA ATGCAGTACC AGGNTTCTCT TCGAGCAAAG TAGACCTN 298

SEQ ID NO:4684

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05559

SEQUENCE DESCRIPTION:

GATCCATCTT CCTTACACTC CTTCCAAAAT AATGTTAATA CTCTGTCTAT CAAATGCTTA 60
 CAGTGTTCCT TAGCACATAT AGGGTAAAGT CAAAGCTCAT TAGCAGGGCA TAGGAGGCC 120
 TTCATGACCA GCCTNACCNG CACCTCTAGC TACATCTCCT ACTGNGNCA CCTCCACATT 180
 TACCCTTCGG CATGCCAACC TGCTTATGGT TACGGGGCAC AGCTTGCTGT TTTGGNTNNT 240
 GTGCCTCCCN TTGTTTGGT TCCTGNTGNT GAANTNATGN TGGGACCATT CTTGTGN 297

SEQ ID NO:4685

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05560

SEQUENCE DESCRIPTION:

GATCAGATTC ACTGTTTCAT CATATTTATT GTAATATATT TTTTGTTTTG TAAATATGTT 60
ACAACAAAAT GTGATTGGTC TAAAATATTT GTAATGTATA TTAAAAGGTT CAAAAATAAA 120

SEQ ID NO:4686

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05561

SEQUENCE DESCRIPTION:

GATCAGAGGA GTTCAGGGAG ACATACATAA AAATGTTAAT CACGGTTTTTC AAA 53

SEQ ID NO:4687

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05562

SEQUENCE DESCRIPTION:

GATCGCCAAG TGCAGGCACG GCATCGCATC CCCAGGTGTC ATCCTGTGAC CCAGGAGGGG 60
AAGATGACAC ACCCAATTTA GGTAATGCTG CACTTCTNGT TATAATTGGT TATTGGAAAA 120
TGTGCCTTTA TTATCAGAAC AGTGGTGTGC GCATTCTGA TTATGGAGCT AACTTTTGGA 180
TATCTGACTT AGATACTAAA AACATTGGG TGTTCAGTT TTGCACTTGT AGATACAAC 240
TAAAAGCATG AAATGGTGA TTAAATTAGA TGTTTCTAT AAAATGCACC TTGTTACATT 300
TCTGTGAAAG GGGTCTTACC AGCGTGAAT AACNTGGCTC AAGGGTTTGA GGGGANCANC 360
NGN 363

SEQ ID NO:4688

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05563

SEQUENCE DESCRIPTION:

GATCCACGTG TACTGGCACC TCAGAAGACC AAATCATGGN CTGTACAAGT CTCTATACAA 60
TGTCTTTATC CCTGTGGGCA GNANGCAATG ATGATAATGN CAANCAGGN 109

SEQ ID NO:4689

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05564

SEQUENCE DESCRIPTION:

GATCAGAAAG CATTAGTCC AGTCAGAATT CAAGGTGGGA AAAGTAGGTG TATTTCTGAN 60

CCATTTGGGA AGGAAAATCA TTTTCTGAA CANCACTACC TGCATTCTG TTTCTGCAGA 120
 CAATCAAAAA ACAAAACCANT AAAANTAAGT AAGTGAANGA AAGGCCANTT AGCATTATTC 180
 ATTTGCCTTA GGTTCACAGG GTCACAGATT CATTAGCTTA ATTACATCCT CATTTTGGNT 240
 GCCAAAGAAT GGAGCAAGAG CANTCAGTAT TGCTANCTGG CTCTTGCTTC TTCTTCCTGG 300
 GTTTGTTTTG GTTTTNCAGA GAAACAGGGA AGNGAGGGCA TTNGCNNAGT ATAATTGGTN 360
 TATAGGAGN 369

SEQ ID NO:4690

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05565

SEQUENCE DESCRIPTION:

GATCATAAAT GTACTTGCTG AATTCAATCA TTTTAAACAA GCCAATAAAG TTTGATAATT 60
 CATCTCCAAA 70

SEQ ID NO:4691

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05566

SEQUENCE DESCRIPTION:

GATCCTCAAG GCCTTGCTCT NCCCCGTGGA GACGCTTGCT CGGATGAGCT CAGGAAACAG 60
 TACCGGCTGC GTGGCAGGTC TGGGTGTTGT GTGCGAGGAC GTGGCCTTTG CACACCGCTG 120
 TGTTCTCAGA GGTCTTAGG AGATATTTTT TTTTGTCTTA GGGGGACTGT NTTAAGTTCA 180
 GACAAATCAN GCTGGGTGTG GAGAGAGTCT GAAATACGTC AGTGAAGTAA GTAGCAGTGA 240
 GCGATTGTGA ATTTGNANTN TAAATGGAAA ACCGGGTTTT TACCGGNGTT TTN 293

SEQ ID NO:4692

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05567

SEQUENCE DESCRIPTION:

GATCAAACTC TTCATTGAAG TACTCATNAG GCGTGATGGC TGTGGGGTTG TTTGCAGTAG 60
 CACATTNCGT GGTGAGGTCC TGCTGAGCCA GNACTCAGGA GAGTCAGAAA TGCCAAANN 120
 TGTTCAACAAG TGAAGGCCTG TGGCACTCAG TGTCTGAGGT GGACGTGTTA ACCAGCTAAA 180
 GACCGGGAAG TTCTATTAC TAACTTTTT GCATGGAACA AGAAAATCTA TGAGGATATC 240
 ACCAACTAA A 251

SEQ ID NO:4693

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05568

SEQUENCE DESCRIPTION:

GATCCATCTT GCTTTTGCCT TATATAAAGA CTACAGTTAT GGAAGTNTGG AAAACTGTGG 60
 CTTCTCAATA AATATTCAGA TGTCTAAGA NTATAAA 97

SEQ ID NO:4694

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05570

SEQUENCE DESCRIPTION:

GATCTCACAA AGTACAAAAC GAATGCCTTT CTTTCTTGT TTATAATGGT CACTCACTGT 60
 GTTTGGTTAC TGTCAAGAAA TCAATAAATG TGTTAACAA GTTAAA 106

SEQ ID NO:4695

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05571

SEQUENCE DESCRIPTION:

GATCAGTNGA TATTAAGATG AGATTACAAA TTTTNTTAAG TTCAGCCATT ATTACTTTTG 60
 GTATCCGAGA ACATGACAAA TTATGAATAA AACAAGTATA CATAAA 106

SEQ ID NO:4696

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05572

SEQUENCE DESCRIPTION:

GATCCATAAA ATTTTATTAA TCAAGATATC ATATTAAAGT ATTATTATAT TAATTTATGA 60
 CACCAAATTT TTAACCAAT TTTATGTTTT TCCTTATGTA TCATTATAAA CCCTATTGCA 120
 TTTTATAAGT AATANANTAT TTNAGAAA 149

SEQ ID NO:4697

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05573

SEQUENCE DESCRIPTION:

GATCGCGACG GCTGGTTTGC ATCGCCAGCT TCTATATATT ACGGCCTTTT TTTTGCTGG 60
 ATATTATCTT GTAAAACGTG AAGACTACCT GTATGCTGTG AGGGACCGTG AAATGTTTGG 120
 ATATATGAAA TTACATCCAG AGGATTTTCC TGANGAAGAT AAGAAAACAT ATGGTGAAAT 180
 TTTTGAAAAA TNCCATCCAA TACGTTGAAG TCTTCAAAAT GCTTGCTCCA GTTTCCTGA 240
 TACCTGCTGT TTCTGAATTT GNTGGGGCAT GTTCTTATG GCANTTGGAG GCTNATTGNT 300
 AATNTGTATG TTGGCACCTT GTNATTAAAA TACGGGGCCA TGNNANAAAA AAAAAA 356

SEQ ID NO:4698

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05574

SEQUENCE DESCRIPTION:

GATCCACCTG CTTGGCCTC CCAAATGTTG TGTCTTTTA AAGTATCTAC AGTAACCTTG 60
TATCAACTTA GTTGTGCTAGT CTATTAATAC TAAATTTAGC TCCTTCAAAG CAGTTGGAAC 120
TATGTGCTAC ATAAATTCA GTTTCACCCA AGGGAAGAAG TGAAATTAGT GAATAGACAG 180
TTACAGCAAA 190

SEQ ID NO:4699

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05575

SEQUENCE DESCRIPTION:

GATCCGNTCC CAGACGGCCT TGGACTGCTT GCATTTCCCC GGAGAAAAAG GGGTTAATAA 60
ATGGGCCATC CTTTCCTGAA A 81

SEQ ID NO:4700

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05576

SEQUENCE DESCRIPTION:

GATCACTGTG GGGTCAAGAA TGTCTTACAT GTTTATTCA TCATTCTTGA NGGAAGAAAT 60
AATTCAAACC TTGGAATTAA AAAGTCAAA 89

SEQ ID NO:4701

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05577

SEQUENCE DESCRIPTION:

GATCTTGGCA AGAAACCCTA ATCTCCCTCC AGAAACAGTG GACTCTCTAA AAAATATCCT 60
GACTTCTAAT AACATTGATG TNANGAAAAT GACGGTCACA GACCAGGTGA ACTGCCCCAA 120
GCTCTCGTAA CCAGGTTCTA CAGGGAGGCT GCNNNNACTC CATGTTACTT CTGCTTCGCT 180
TTCCCTACC CCACCCNCCG GCATAANGNC ANACCAATCA ACCACGACAA AGGNAGTTGA 240
CCTAAACATG TAACCATGCC CTACCCTGTT ACCTTGNTAG CTGCAAAGTA AACTTGTNGC 300
TGNCTGCAA A 311

SEQ ID NO:4702

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05578

SEQUENCE DESCRIPTION:

GATCTCTCTT GCACGGGCCT TGCCAAGGCC CAGGAGGGAC TTGGGCAGTA TGTTCATGTG 60
GTCATATGTT TTTGTAAAAA ATTGTGAAAG TAAA 94

SEQ ID NO:4703

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05579

SEQUENCE DESCRIPTION:

GATCCGAATC CGACTGTGGG GGGCGGGCTG GGAGGTGGGA GCCGCGTCTC AGGCCCCGGCC 60
GTTATCAAGG CCCCTCCGCC CCCGAACCCT GGGGAGCTGG ACCAGGAGGT GGAGGCTCAG 120
GGGACCCCAT GGGGACAGGC AGAGCTGGTC TCCTCCCAGC AGACGGAGCC AGGACGGGCA 180
CAAGAGTCTT GGAGGTTTGC GTGTTTCTGC TAGAATTAAA AAGTTAAATT TAAAAATGAA 240
AATGNAAA 248

SEQ ID NO:4704

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05580

SEQUENCE DESCRIPTION:

GATCAGCAAA GTGAGACAAA AGAAGATACT TCCCCAAAGA AGAAAAAGAA AAAATTGAGG 60
CAGAAA 66

SEQ ID NO:4705

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05581

SEQUENCE DESCRIPTION:

GATCGGGTCT CGGAAGGGAA GTAGCCATCA CACCATTAAA AAGCCTGTGG ACCTTTAAAG 60
GNAAA 65

SEQ ID NO:4706

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05582

SEQUENCE DESCRIPTION:

GATCTTCTTA GGACATCTTT TTTAAAAAGC TGTTTAGTAT CATTTTGTGT ATATTGTTGA 60
AATGCTTTT CATCAATAGC AGTCANCATT TTATCCTTTC TTTTATATT CATAATGTTA 120
TTTAAGTGTC ATTGATGTAC TGTATTGACT TGGGGTTTGC TTATTGTGA CTTAACATGT 180

GTACATGCAT GAAAGCATT TNGTTGTTT CCTGATAGTT ACAITTC AAC CTTGGGATTT 240
TNCCAAATNA CTTAAGANGT TTAATGTCAG TNAAGATTT TTTTACCCTC NTTTTGGGAA 300
CATCAATN 308

SEQ ID NO:4707

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05583

SEQUENCE DESCRIPTION:

GATCCGGAAG ACCACGGCCA GCCAGGTGTA CGAGACATTG CTCACCTACA GTGACGTCGT 60
GGGCGCGGAT GTGCTGGACG AGGTGGTGAC TGTGCTCAGT GACACTGCGT GGGACGCAGA 120
GCTTGCACTG GTGAGAGAGC AGCGCAACCG TCTGTGTGAC CTTCTGGGCG TACCCAGGCC 180
CCAGCTGGTG CCCCAGCCTG GTGCNTGCTG AAGCCAGTCC TTGGAGCCCA TANTCAGCCC 240
CTGCCTGGTG AGGATGTCTT GTTTCCTGAG GGTAGGCCGG TTGTGAAAAA GCCTCANNAC 300
NAGTGNTGCC TNNAGGCTGN GAN 323

SEQ ID NO:4708

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05585

SEQUENCE DESCRIPTION:

GATCTTCCTT TGGAACCAGG CACATTGGC CCCTTCTCAG TGA CTGCACT GTGGA ACTCT 60
TCTTAAGAAA ATATTGAAAA CAGCTTAATG CTTTCATATA GTGACCGACA TTAGTTGAA 120
AACTACTGCT GCATAGCAAA TATTGTGACT CTTTATGTGT CCACAGGAGC TCTTGTGTGG 180
GTTTAAAGCT ATGAAGTGTA TTCACATTGT GAAGTTTAA TTATCTTTAT TGAAATTAAT 240
TGTGTAAAAA TGGTATGTGC TCTATTAGGT ATTCAGTTTG TATGTGAATT CTATAAAGAA 300
TN 302

SEQ ID NO:4709

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05586

SEQUENCE DESCRIPTION:

GATCCCTCTC AGCTACTGGG AGCTGCTTTG TGCCTTGGAA GCCTCAAGCT GAAATGGATG 60
TCAGCTCAA GTTAACTCC AAGAGGGTTC ACCTTGTTTC TTTGAACAAA ATGTGCTGCC 120
TGTTGCTTCC CTTTGCCAGG AGTGGTGTTC CCTTTCCAC AGGTCTGGAC CACAGTGTCT 180
CTAGCTCCCG CTCCTGGATA CTTGGTTACT GTGTGTTTCG GGAAAAAAGG ATNCACAACA 240
TGAATATNCA CTAAGCTGTA ACAGGGGCCT GCTGCANCTA TAGTATTTCC TGAAAAAGTA 300
TN 302

SEQ ID NO:4710

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05587

SEQUENCE DESCRIPTION:

GATCTTGCCCT CTTTCCTCCT TCATGAAAGC AGCACACATT GTGTAACTT ATGTCTCTTG 60
TTAAATNAGC TTAATGTCTT TGTGTTTTGT CCAAACTGT ATTGNNNNAA TATTGTTTAA 120
TGCAAATNAA GGAATGCAAT AAAGAGTAAA TATACTTGAA A 161

SEQ ID NO:4711

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05588

SEQUENCE DESCRIPTION:

GATCAGAGCG TGGGAGGAGG TGGGGGTGGA CGTCCATCCG GTGAACAGTG AAGGCGTTTG 60
TGAGGTCTTT CTGGTCCCAG CATGAAATAA AGCCTTGCC TGGGGGCCGC TTCATTCAA 120

SEQ ID NO:4712

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05589

SEQUENCE DESCRIPTION:

GATCTGGCAG TACCCAGCCC TTGTGTGTGT GCGTTANTCA GCACCTGCCC AACTGCGAG 60
CCCCGTAGG ATGTGCCTTG TCCTTCCCTG TTTCAGCACT TAACACACTA CCTGGTACAG 120
AGTATGTAGT GGGCATCTGT TGAATGAATG CTTTCCCAG TAGCAGTGTA TTCATACAAT 180
ATTAATATAA TTGTCCCCTG GCTTACAGAT ANAAATGAAA GCATCAAGTG CCCAGTTGAG 240
TGAGACCCAG GTGTTCTTCC TNCACCCCTT AGTGGTTCCC CTGGGGGCAG NTCTTN 297

SEQ ID NO:4713

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05590

SEQUENCE DESCRIPTION:

GATCTCTGCG CTAGGTCGTT TACCGCTATT TATTTTATG GGGAAAATAA AACTCTCAA 60
AATGAAA 67

SEQ ID NO:4714

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05591

SEQUENCE DESCRIPTION:

GATCACTAGA TGATTCTAAC ATCGAAATAA ACCTCTTTTT ATATGGCAAA 50

SEQ ID NO:4715

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05593

SEQUENCE DESCRIPTION:

GATCTGGTGC GTGTGGCCCT GTGGGAGTCC ACTTTCCTCT CTCTCTCTCT CTCTGTNCCA 60
AGTGTGTGTG CAATGTTCCG TTCATCTGAG GAGTCCAAAA TATCGAGTGA ATTCAAAATC 120
ATTTTTNTT TCCTCCTTNT CAATGTGATG GAATGAACAA AAAGGAAAAA ATTCAAAAAA 180
CCCAGTTTGT TTAAAAATA AATAAATANA GCAAATGTGC CANTTAGCGT AAA 233

SEQ ID NO:4716

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05595

SEQUENCE DESCRIPTION:

GATCTTGCCCT TGAGGAAGAC CCAGGCCATG TTCCCAAAGG NCAGCGGGGG CCCTGGATTG 60
TAATGCAGCC TCGGGACAGG GCTGAGGCCT GCGGGGGAAG ACCTATACCC CACGACTGGG 120
CCTGGNTTCA CCTCACCTA ATCCCCGGG AGGAGCTGAC TGATGCAAAA AGCTGAGGNN 180
GCCTGCTGGG NNGTGGCTGT TTTNATGNCC CAGCCCCGNN AAGTTGGGGA GTGTTTGTGG 240
GGGTNCAGAG CCCTNCCCCA GNCAGGAGAG AACCTTCCTN TN 282

SEQ ID NO:4717

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05598

SEQUENCE DESCRIPTION:

GATCTAGGAC TAATTCAAGG GTCTAGATTT ACCTCCAAAC TTTGTTTATC TACAAAAAAT 60
AAAACCTCTAT CTTCTTTAAA 80

SEQ ID NO:4718

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05599

SEQUENCE DESCRIPTION:

GATCCTTCCC CTCTCAGACA CCCCTCTTTC AGCTTAGAAT TTGGGGAACC TATAGAGAAG 60
TCACAGAATC CCATGAAAGG GAATGGGGCA GGAGCCAGGG GTGTTTTTNC CCAGTGCAGG 120
GTTGTGTCTT TGTGTCTCTG TCTCTGTGAC TGTAATCCT GCCCTGCCCC ACTCCCAATA 180
AAAGCTTTGG TGTATAGGCT CAAA 204

SEQ ID NO:4719

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05600

SEQUENCE DESCRIPTION:

GATCAGTTTG TTTCTTTCTG TGCTGGTAAC AATAAGCGTC GCACAGACAT GGTTCAGGT 60
AANTAAATCT ATTCTATGAT AAA 83

SEQ ID NO:4720

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05601

SEQUENCE DESCRIPTION:

GATCTCTGGA TTGTGTTATG TCAGTGTGG TAGGTTAGGA ACTAGATTTC CCAGAATCCA 60
TTCCATTTGT NATTCATGA TACAATTGAC CAGTAACCTA TCTTACATGA GATTCGGAAG 120
TAAGTTAAGA AGGCATTAGT CATGGTTTGG AAGCACCATA CAGGGAGACA GCTGTGTGAA 180
TACAGGCTGT ATGGACACTT GCTTCCATCC CATTNNCCTG CTTCTTTGGG TTGCCAATCA 240
AGTGTATCCT CAAAACGACT TGACTTTAAT TTTCTCGGAG GTGATAGTN 289

SEQ ID NO:4721

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05602

SEQUENCE DESCRIPTION:

GATCAAGTCT TACATGCCCA TTCAGCTTCT AGGCCCCCT CACCTCCCTG CCCTCATTCA 60
CAAGTGGCCC TGAGACACGT GAACACCTCC CTNCTATGCA TCACAAACCT TCTCCACCGA 120
GCTTTGGTGC TTTNGCCTCT GGNACACCTA ACTAGCATTG GCAGAGGAGA GTCTACACTC 180
TNTNCTNAT TCAGGGTNGA TGCTTTAAGA AATNCTGNCT CTTGTGNANG CAGAN 235

SEQ ID NO:4722

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05603

SEQUENCE DESCRIPTION:

GATCGTCAGC ATCATCGGAG GCATCAGTTC CTTCTTCATC TTCATCTTCC CAGGTTTGTG 60
CCTCATCTGT GCAATGGGTG TCGAGCCTAT AGGACCAAGA GTCAAGTGCT GCCTGGAGGT 120
CTGGGGAGTG GTCTCTGTGC TGGTCGGCAC CTTNATCTTT GGGCAGAGCA CGGCGGCAGG 180
GTCTGGGAGA TGTTCTGATG GGCAGCCAGT GCCGGGCAGG AAGGGGCCCT CCGGGGGCTG 240
ACCCTACGTG GCTGCTGTAT GCAGNNGGGA GANCAN 276

SEQ ID NO:4723

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05604

SEQUENCE DESCRIPTION:

GATCAAGGTC ATAGAAAGTG AAGATTATGG CCAACAGTTA GAAATCGTAT GTCTGATTGA 60
CCCGGGCTGC TTCCGAGAAA TTGATGAGCT AATAAAAAAG GAACTAAAG GCAAAGGTTT 120
TTTGGAAGTA CTCAATCTGA AAGATGTAGA AGAAGGAGAT GAGAAATTG AATGACACCC 180
ATCAATCTCT TCACCTCTAA AACACTAAAG TGTTCCTGTT TCCGACGGCA CTGTTTCATG 240
TCTGTGGTCT GCCAAATACT TGCTTAANCT ATTTGGAN 278

SEQ ID NO:4724

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05606

SEQUENCE DESCRIPTION:

GATCTGGAAT GCNACGGGAG CACTTGCTCT GAGGAATCCC AGGGTGACTC TGTCGGGGAA 60
GAATCCGGTC ACAGCCTCCC CTCAGAGACA GGCCTCANTT CGAGGGCAGC CCATTATCTG 120
TCGCAGCATC TGCCATGTCC CTNAGACTGC GGGAGGCAGG GNATGCATGG GTGTCCCAT 180
CTGTCCCTGG TGAGAAGCAA GGCTAGCTCT GCCTTCCACA TGCTTNTNAG GATGCCAAGA 240
GGCCTAGGAA CCCAGNAACC CCCTTGNGAG GAGCTGTGNN 280

SEQ ID NO:4725

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05607

SEQUENCE DESCRIPTION:

GATCTGCATT CACCTTAGGG CTTAGCCTCT NATTTTATGA ATTTTCAGGC TGTGATTNGT 60
GTTGGATGGC TAAGNTCTAA GATAATGCAA ATAGCCCCAA TCTTTAAATA TAGCGGTGCT 120
AAGTTGAACA NGTAACACAN TACAGAAAAT GCTGATATGA ATAATTAGTA ATAATACAAA 180
AGTTCCTGCT AAATTATATA TGTGTATCAC TGCCTGNCNN GANACCCAC TTNCTTTTC 240
TAATCCAGCN CAN 253

SEQ ID NO:4726

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05608

SEQUENCE DESCRIPTION:

GATCCAGATA GCCTAGGGTG AGGGTGACAG AGGGACAGTG GGCTATGCCA CTAGGCCCTG 60
GTCTGGCTTT GGAAAGACCT NTGAGGGGAA ACCTTCACCC AGCAGCCATG CCCCACTCTG 120
CTGAGGCCAG AGGAAGGGAG GCCTGAGGGG CAGATTNGTT CATGCCTGGG GTGGAGGCTA 180
AGCCTGGACA CAGTCAGGGC GGGGCTGGCC AGCTGTGCGA GAACACAAGC CAGCCTGCN 240
ATGGTGCTGC ACCCTGGGT GTCCCTGCCT TGGCCCTGCT CTGGTCACTT CAAACATNGT 300

N

301

SEQ ID NO:4727

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05610

SEQUENCE DESCRIPTION:

GATCATAAAA CAATAAAAGT AGTTTCTAA TGTGCTCAT AAAGTGGGAC TGAAAATCAT 60
 TTCAAATCCA GGAGACAGTC CAAAAATGGT TATTGAGCAN TGGCCACATA TTGAATAAAA 120
 AATTTTNATT TTCAGTCTGT GTTTGGGAA AACAGCATT CATTCATAG GTGGATAAGT 180
 NCTAGAATAT TGGCTAANCA TATNGTCATT TGCTATAATG CATATGCATT NCAGAAGTTT 240
 TCTNGCTCCT GANGTATNAT GGGGGGTTT CTAGCTCCCN TATNGCNAAA ANTTN 295

SEQ ID NO:4728

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05612

SEQUENCE DESCRIPTION:

GATCACTTGA GCCAGAGGTT AAGCTGCAG TGAGCTGTGN TTGTACCACT GCTCTCCAGC 60
 ATGNGCAACA GAGCCGGACC CTGTCTCACC AAAGNCAAA 99

SEQ ID NO:4729

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05613

SEQUENCE DESCRIPTION:

GATCCATTGT CGGGAGCTTG TGGCACATCA CCTTTCTACT CTGCAGTCTT CCCTGCCTCT 60
 NAATTCCGTT TATGTCTACC GTCCCCCTCA GCACACCCTG GTGACCTGTG ACAAAGGAGT 120
 GTTCAGATTA CATCCCTCCT CTGTCCCAGG CCCAGACTTC TCCAAGGACA ACAGCAAGCC 180
 AGAAGTGCCA GTCAGAGGTT NAGTAGCCTT TTACCATCAT CTCCAGNTG CCAGTGGGTG 240
 CAAGCAGACC TCTACTAAAC GNAAAGTAGA GGGAAATGGN AGTGGATGAC TTNTGTGATG 300
 GANTCAAACG GCTCTATAAT GGANGGTTN 329

SEQ ID NO:4730

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05614

SEQUENCE DESCRIPTION:

GATCCTGCCC TTCTCTGGGT NGGTGGGNGG TATAAGCACT GCCACCAGAA CTGTTGGGTG 60
 CTAGCTTCAA AGCCCAACAC AAGAAATACT ACCAATTATG AAATTACAAC AACAANTNTA 120
 AATGACATAA TTTTTGAAA 140

SEQ ID NO:4731

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05615

SEQUENCE DESCRIPTION:

GATCCATAGG ACTACCGCAG CCCGGACTCA CCAACTTGCC ACATGTTCTA GGTTTCAGCA 60
ACAAGACTGC CAGGTGGTTG GGTTCTGCCT TTAGCCTGGA CCAAAGGGAA GTGAGGCCCA 120
AGGAGCTTAC CCAAGCTGTG GCAGCCGTCC CAGGCCACCC CCATGGAAGC AATAAAGCTC 180
TTCCCTGAAA 190

SEQ ID NO:4732

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05616

SEQUENCE DESCRIPTION:

GATCCCAGCC AGGAAGGCTG GGGGCCCTAC TGTTTGTCCC CTCTGGGCTG GGGTGGGGGN 60
AGGGAGGAGG TTCCGTGAGC AGCTGGCAGT AGCCCTCCTC TCTGGCTGCC CCACTGGCCA 120
CATCTCTGGC CTGCTAGATT AAAGCTGTAA AGACATAAA 159

SEQ ID NO:4733

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05618

SEQUENCE DESCRIPTION:

GATCACAGAC AAGCTGGGCC TGCATTCCCT TCGTCACCGT AACTGGTACA TTCAGGCCAN 60
CTGTGCCACC AGCGGGGACG GGCTGTACGA AGGCCTGGAC TGGCTGGCCA ATCAGCTCAA 120
AAACAAGAAG TGAAAGCCAG ACAGCCCTAA CAAAGCACCC CACCCACCCC TGACATACCT 180
ACTGTNACCC TGCCCCAGTC CTACCCCTTC CTCTCCATGC AAGTNTGGCC AGGGCCCTGG 240
GTATCATGTC CACATGCCCC GCAAGAGCCT TGCCTNCCNT TGCCTGCNCT GCTTN 295

SEQ ID NO:4734

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05619

SEQUENCE DESCRIPTION:

GATCCACCCA CCTNGGCCTC CCAAAGTGCT AGTATTATGG GCGTGAACCA CCATGCCCAG 60
CCGAAAAGCT TTTGAGGGGC TGACTTCAAT CCATGTAGGA AAGTAAATG GAAGGAAATT 120
GGGTGCATTT CTAGGACTTT NCTAACATAT GTCTATAATA TAGTGTTTAG GTTCTTTTTT 180
TTTTCAGGAN TNCATTTGGA AATTCAAANC ANTTGGCAAN CTTNGTATTA ATGTGTTAGG 240
TGCAGNGGN CATTGGTATT CTGGGCACCT TCCTAATATG GCTTTACAAT CTNNN 295

SEQ ID NO:4735

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05621

SEQUENCE DESCRIPTION:

GATCTCAGCA ACAGCTGGGT AATAAGACTA GCATAGCTCA AACTATCCTG CCAAACGCTC 60
 TCATCTGATT TTNCCTCCCT TCTCCCCCAA CCTCCAATCA CCCTGAGTCA CCTGTAAATN 120
 CATTTGTNAT TCAAAGCGGA ATAACANGTT GTCCCTAGCA NNCCGCTGA GCGCTTTATA 180
 ATTTTNTGGT GTATTTTGT NAGTAGGTAG CAGAGGCGGA NGTATTTTNN GGTGTAATTC 240
 TTGANATTTT CTGACAGGN 259

SEQ ID NO:4736

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05622

SEQUENCE DESCRIPTION:

GATCACTGCA TGTTATGATG GCTTGTAAGT GCGTTGTAA GACTTTTNTT TCAGTGTGTTG 60
 TNTCCAGTA TTTGAACCTA ATTTAAAGAA AAAGACGTTT CCAAGTTGTA TTTATTAAAT 120
 GTNTTTNCC TTACCTTTTG TNCTGCTACT TTNCTAATCT CATTAGCTTA GCTGTGTTTG 180
 TNCATAGGTT ATATNTGGTA ATAAATNTAT AGAGTGTTNG TTGTCATCGA AA 232

SEQ ID NO:4737

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05623

SEQUENCE DESCRIPTION:

GATCTGTAAG TTTATTTGCT CAATGTACGA CAGCTACATA ATGACTCACA TTCATGATAT 60
 TCCATCACTG AGGAAACTGC TAAAGATGGT CCGTGTGTGA AATAATTCCT TAGAGAAACA 120
 CGGAGCTGGA AAAATAAA 138

SEQ ID NO:4738

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05624

SEQUENCE DESCRIPTION:

GATCCAACCTG GACAACGTGT GGGATGGACC TGGAAACAAG CACCTCCCCA AACACATCAC 60
 CACTCCCTAG GCGGGGCGCT GTGCATGCTC TCGCATGACA TCTCCATGCT GGTTCCTGCA 120
 TAGCATAAAT GGAAA 135

SEQ ID NO:4739

2153480

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05625

SEQUENCE DESCRIPTION:

GATCGATGTT AAACGTCACA GCAGTACTTT GCTCAATAAA GGTCATATTG GAAACATAGT 60
CAAA 64

SEQ ID NO:4740

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05627

SEQUENCE DESCRIPTION:

GATCTGTGGT AGGGTATTGA GGGATGAGGG AGAAAAACGA CCTAATTCAN GTAGGACTNG 60
CAACGGCTCC CACCCTCCCT GGGGACANGG NTAATAAAA ATTGACATCA CAAGAAA 117

SEQ ID NO:4741

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05628

SEQUENCE DESCRIPTION:

GATCAGAAGG GCTGCGTGTA GCACCCTTAT GGTCTTGCG AACACACCAA GAAACCCGAC 60
GGCTTCCATA TTTNCTGACC CTACAAACAG GTGCCTAATA CTGATGTGGA GAAAGCTCAA 120
GAGGGAATCA TCTGGCCTGA GCCTACCATG AGGCTGTTTG TGGTNTGGC AGAAAAGCAA 180
CAACTCGCTC CCCTTCCCAT GTATCAGTGA AAACCATTAT GCAAATAAAG AGCTGGGCCC 240
CAAA 244

SEQ ID NO:4742

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05629

SEQUENCE DESCRIPTION:

GATCTTTTT CCTCCTTCTG TTTATNTTTT TGTTTGTTTT ATTTATAGTC TGATTAAAA 60
CAATCAGATT CAAGTTGGTT AATTTTAGTT ATGTAACAAC CTGACATGAT GGNGGAAAAC 120
AACCTTTAAA GGGATTGTNT CTATGGTTTG ATTCACTTAG AAATTTTATT TNCTTATAAC 180
TTAAGTGCAA TNGAANGNGT TTTNCAAA 209

SEQ ID NO:4743

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05630

01463

SEQUENCE DESCRIPTION:

GATCATATAC TGTATATATA AAANNNTTGA GATGGTAGAA ACATGTATGA NTGTACTAAG 60
 TAGTATTCCA CTGTACTCAT TCATAAGGTA GGTTCCTTA CAAAACCTCAC ACCAGGTACT 120
 TAAAGATGTG CTCTGCTTTT TTCCAACCTAC GGAGTGTAC TGCTTTCTAG GTCAGTCCCT 180
 GCAGACTCTT CTCAACTCTT TCCCTATAGG AACTTACTC CGCGTCCTGC CCCACCTCC 240
 TAAATAAATA ANGGAATCGG CGAAA 265

SEQ ID NO:4744

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05631

SEQUENCE DESCRIPTION:

GATCCCTAAC ATACTGTACT ACTTGCTTNT ACAATGTGTT AGCAGAAACC AGTGGGTTAT 60
 AATGTAGAAT GATGTGCTTT CTGCCCAAGT GGTAATTCAT CTNGGTTTGC TATGTTAAAA 120
 CTGTAAATAC AACAGAACAT TAATAAATAT CTCTGGTGTA GCACCTTTTA CTGTAAA 177

SEQ ID NO:4745

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05632

SEQUENCE DESCRIPTION:

GATCAGCCGA AGAAAGCAGA AGCTCTGGAG GCTGCCATCG AGAACCTCAA TNAAGCCAAG 60
 AACTATTTTG CAAAGNTTGA CTGCAAAGAG CGCATCAGGG NCGTCGTTTA CTTCCAGGCC 120
 AGACTCTACC ATACCCTGGG GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTTCCGG 180
 CAGCTGCATC AGGAGCTGCC CTCTCATGGG GTACCCTTGA TAAACCATCT CTAGAGAGGA 240
 CATCCCTGCT GGGCTGCTGT GCAGAGTATA AGATTTTGA CTTGTTTCATG TCCCTCTCT 300
 CCTATAAGG GGTGTATTTG TGACACCCTA TCTNGTCANT AAACAGCATT TCTGATTAAA 360
 AANAANAAAA AAANAAN 377

SEQ ID NO:4746

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05634

SEQUENCE DESCRIPTION:

GATCCTGAAG TTTTGGTCA ATAGGCTCTG TCTTCGTGAG AGACGGGCTG AGAGTCAGAA 60
 ATAAATCAAC CATTTNTGGT TTATTCAA 89

SEQ ID NO:4747

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05635

SEQUENCE DESCRIPTION:

GATCTTTCTT CTCCCAGCTA AGAGTTCTTC AATAAATTTA AGAAATACCT GGAAA 55

SEQ ID NO:4748

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05636

SEQUENCE DESCRIPTION:

GATCAGCAGG GACCAAACCA TTGCCACATC CCAAGGNTGA ACAAGCATGG CTGAGCACCA 60
 GAGTNTGCAC CAAGTNTGAN TTTAGGCCTG CCAAGTGGAT TTACCCCAG CACGTCCCAA 120
 ATTTGGGTGA GTGCATGCCA ACCCTGTAAA CATGTAGGGG TGGACAGGTC AACAGACAAG 180
 GTGACCCCAG CNTCCCGGCA AACTTGATTA ACACATACTG GNCACAGCAA TTANNNNGAN 240
 NTGN 244

SEQ ID NO:4749

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05637

SEQUENCE DESCRIPTION:

GATCGCAGGG CCNTAGGTGC CTGGACCCAG GGTGTGCCAG CCCGTCTCTN TGCAGTCCCT 60
 GGAAGGGCGC TGAGAAAGGC ACCAGCTCCT TGGACCCAC CTCCCATGCT CTCACTCTCA 120
 TCCCCGTTCT CTTGTCCACA CAGCTCTTCC AATAAAGGTG TTTCTNTTCC TCCTTCTCCT 180
 CAAA 184

SEQ ID NO:4750

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05639

SEQUENCE DESCRIPTION:

GATCCTAGTT GCCTTGTGT ATATTTACTG CCTGCTTGAG TGTTTCTATG TGTGGGTTTT 60
 CCCTGTATCT TGTAGAAATG TTGGGGTGTT TTCCTCTGCC ATATGGCTCG TGGCCTGCCA 120
 GCCAACTATT TCAGNTGTGT TTNACCTTCA TTTTGTATGA GGTGATTAA ANNTNGTTTC 180
 ACTTTGTGTA GTGAATTCCA CAGTAGTTTT CTGANTGTNG TTAAAAATGA CTTAACATAT 240
 TACACAGATA TTCAATAAAA ANGTTTTATT TCCTGTTGNA AA 282

SEQ ID NO:4751

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05640

SEQUENCE DESCRIPTION:

GATCCCATG TGTATAAGTT AATATGTGAT AACTATTGAA TCTTGTACAA AAACAAAAAT 60

TGAAA

65

SEQ ID NO:4752

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05642

SEQUENCE DESCRIPTION:

GATCCATCCG CGGTGTTGCC TGAATCAACC GCTCATCCCT CGGATTGCTG AGCAGGATTC 60
ACAGGGTGGG GGCACCACAA TGTATCTGTG TCCCCAGAAA GAATACTTGC AGTTTCCAGT 120
TGGACACTTT ATCAATAAAA TCACTATAAA CATCTGAAA 159

SEQ ID NO:4753

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05643

SEQUENCE DESCRIPTION:

GATCTTGAGT TGCAGTCCAC AGCATTACACA TTCTCAGGAT AAACATGCTT GTCTCCATAT 60
ATACTATCTG TGCCTGTAAT GAATGAAAAA TCCATCCACT CTGCTGCCAT TCACAGCCTA 120
ATCTTCTGGA GTAGTCCAAA CAATGTTTGG AAAAACATGG GACTGTATGT CATTACTATG 180
ACTGATAGCA GAATAATAAT GCATCTNACT TCTATATAGN GATAGNCTTA CATAGGTTAC 240
CCTTGANATT CATTAGTNTG TCATANGTTT TAGGAAAGGT AGGACCCGGN AAGNNGTTCT 300
ANTTAGTTGT CTAATNTTT TNCAGTGNGC CAAGNNATTC ACCATGANAN AN 352

SEQ ID NO:4754

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05644

SEQUENCE DESCRIPTION:

GATCGGCTCA AAGCCTGTCA GCAGAGGGAA GGACAGAAGT ACCAGCAGAA CTGTATCAAG 60
GAAGTGGAGC AGTTCACCCA GGTGGCCAAG GCCTACCAGG ACCGCTATCA GGACCTGGGG 120
GCCTACAGTT CTGCCAGGAA GTGCCTGGCC AAACAGAGGC AGAGGATGCT GCAAGAGAGA 180
AAAGCTGCAA AAGAGGCCGN CGCTGCCACC TNCTGAGGCA GCTGTGGGTG CCCCTGCTGT 240
GTGGCTCTGT ATNACTTGTT TGCTTGAAAT NTAAGAGGCC TNGCAAACCC TGGGAAA 297

SEQ ID NO:4755

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05645

SEQUENCE DESCRIPTION:

GATCCCAGGC CTGTGGCTAG CAGCACTGGG GACAGGAATG GCTGGTCCCT TGAGGAGGTC 60
GTGACAGGCT CAGCCTNGTN GTCTNGAGGG GACTCGGAAA TAAATTGTAG CAGCTTTCCT 120

GCCAAA

126

SEQ ID NO:4756

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05646

SEQUENCE DESCRIPTION:

GATCTAAAA GTCAAAAATC TGAAATTTAA TAATATGAGA CTTACACTGA NTATAATGTT 60
 CATTTAGAAG TTGCTGTGGT CCACTTCATT TATANGGAAC AAATATTTTT ACAGTACACT 120
 ATAGCAACAG CAAAAGCCCT CTCTCACCCCT GATAGGAATG GGTTTGCTGG GTGTCTAGAA 180
 GTTAGATTCC TGCTGAATAG ANTTAGCCAT CCTTAAAAGA TNTTAATCCA ATACTGAACT 240
 GGTTTATAAA ANGCTTTCTC TATTGTANTG NACTGTAAGT AGTGAAATTC TGTATATACT 300
 GCTATTNGCT GNCTGTN 317

SEQ ID NO:4757

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05647

SEQUENCE DESCRIPTION:

GATCAGTAAT CCTATTAAAG AAGCGGAAGA AGATACCTCA GAAAGGTCGG AAGAAAAAAG 60
 GTTTTCGGAG GCGGCGGTGA TTATGGGTGT ACATATTTGT ATATTTTTTG TCATCCTGAG 120
 ATACTTCTAA TTTCATTGTA TATAGGTGGT TTTCCCTGGA ATTCATTAAT TGTTTGCTTT 180
 GGACATGTGG AAAGAGCCTT ACTAATAAAA TTGATTTTAC TTATGAAA 228

SEQ ID NO:4758

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05648

SEQUENCE DESCRIPTION:

GATCAGTTCT GAAACAGTTT CTTTCTGAAA CAGAGAAAAT GTCCCTGAA GACAGAGCAA 60
 AATGCTTTGA AAAGAATGAG GCCATACAGG CAGCCCATGA TGCCGTGGCA CAGGAAGGCC 120
 AATGTCGGGT AGATGACAAG GTGAATTTCC ATTTTATTCT GTTTAACAAC GTGGATGGCC 180
 ACCTCTATGA ACTTGATGGA CGAATGCCTT TTCCGGTGAA CCATGGCGCC AGTTCAGAGG 240
 ACACCCTGCT GAAGGACGCT GCCAAGGTCT GCAGAGAATT CACCGAGCGT GAGCAAGGAG 300
 AAGTCGCTT TN 312

SEQ ID NO:4759

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05649

SEQUENCE DESCRIPTION:

GATCAAGGTA AGAAACATTG TAAAAAATAA TTACAAAAGT GCTATTTGTT TCCTAAAAAC 60
AGTGATTCTT ATTAATAAGG TGTCAGANCT GGAATA 95

SEQ ID NO:4760

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05650

SEQUENCE DESCRIPTION:

GATCCTNTTT CCANTTNAAT GGAACGTAA GCTTTTATCT TTAAACCAAC TGAACAATAC 60
ACCAATAAGCA GCCTAGGGAT GAGCATTCTT TTGAAAGCAA TTAGGTTATT CACCTGGTAT 120
TAAAACTATT TACTGTATAA AAATCTGTGA CTTTATGAAG TTGATTNTA AAGGCAGCAT 180
CANAACTGA NANGGAAGGG AAANANTAGG CAGCTTCTCT GCATTGTTT GGAGCTCCCC 240
AAANCAAGGT GCCATGGGGN AGTGGGCATC AAGNCCGGGC TGCCCTTTTC NGGTCANCT 300
GTGGCAGTTC AGAGTCANGG TTTTCTCNC GCTGGN 336

SEQ ID NO:4761

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05651

SEQUENCE DESCRIPTION:

GATCCAAATT CCCAGGTCGG CGCCTGCATC GTGAATTCAG AAAACAAGAT TGTCGGGATT 60
GGGTACAATG GGATGCCAAA TGGGTGCAGT GATGACGTGT TGCCTTGGAG AAGGACAGCA 120
GAGAATAAGC TGGACACCAA ATACCCGTAC GTGTGCCATG CGGAGCTGAA TGCCATCATG 180
AACAAAAATT CGACCGATGT GAAAGGCTGT AGTATGTATG TTGCCTTGTT CCCTTGAAT 240
GAATGCGCTA AGCTCATCAT CCAGGCAGGT ATAAAAGAAG TGATTTTCAT GTCTNGATAA 300
ATACCATNTN 310

SEQ ID NO:4762

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05652

SEQUENCE DESCRIPTION:

GATCCCCTCC AAGGAGCACC CATATNACGC CGCCAAGGAC TCCATCCTGC GCAGGGCCAG 60
GGGCATGTTT ACTGCCGAAG ACCTGCGCTA GGGGACTCCT CATAGCCCTC AGCCCTTCCC 120
TCGTTTCCAG GCCTCTCCCC AGGCTTGCCA TCAGCCTTCT TTACTTTTTC AGCCTCTGAT 180
TTCCAATTCC CTGCTNCNNN CCACTCCATT AAGAGGCTAG GTGAGGCGCT TCTAGGTTGC 240
TGGGGCTCTG CTGGTTAAGG AACAGGAAGC CTGACCATCT CCCTCCACTA CCTCTTCCCT 300
GTGCTGTTAC ACAGTGTCAT TGTTGATGTT AAATTAAAGT CATATTCTTG CTTCTTCCG 360
NAAA 364

SEQ ID NO:4763

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05653

SEQUENCE DESCRIPTION:

GATCGTCTGG AAGCAGCAGA GATGTACAGA AAAGCTGCTT GGGGAAGCGTA TTTGAGTAGA 60
 CTTGGTGTTT GAGTGCTTCA GATACATTTT TCAGATACAA TNTGAAGACA TTGAAGATAT 120
 GTGGTCCTCC TGAAAGTCAC TGGCTGGAAA TAATCCAATN ATTCTGCTT GGATTCTTCC 180
 ACAGGGCCTG TGTAAGAATG GGTCTGGAG TTCTCATGGG NCTTTTAGGA AATATTGAGT 240
 AATTTGGTAA NTCACCGNAT TGGTTACTAT ANATAAGGTC CCANTNCNTT AAGGCTTGAT 300
 AAGGTGAATN GNGGTGNGNN NTNTGGGGGG AGN 333

SEQ ID NO:4764

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05654

SEQUENCE DESCRIPTION:

GATCCTCCAA AATTCAAACA AGGAAAAATC TCTCCCAATC TCTCCTTCC TCCATCCCTT 60
 TTCTTTACTT CTCATCCCAT ATATAATATT ATATAANGCA TACGTAATAA AAGACATTCA 120
 CTATTATTAA A 131

SEQ ID NO:4765

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05655

SEQUENCE DESCRIPTION:

GATCTCTTTT GCTATGGCTC ACATTATTTT CATAAAGTTG CTGGCCAGCT TTTACCTCTT 60
 GCATATAATC TGTTGAAGAG GAATCTGTTT GCAGAAATTA TTGAGGAGCA TCTGGCAAAC 120
 AGAAGTCAAG AGAACATAGA CCAACTTGCT GCATGAGTAA GGTGGCTTTG NTTGGTGTA 180
 AGTATTTCOA AGGACTAGTA TTAANCTTGT GATTNNGGTT TTGTTTTTAA GGGGTACANN 240
 NNGTAAGCCA TTNCTTAAN AACCGTTGAA A 271

SEQ ID NO:4766

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05656

SEQUENCE DESCRIPTION:

GATCTTTCTC TTGAGTCATT TTATTTTAT CATGGACTAG TGGTGCTCC GTGTCCACCC 60
 CAATAAAAGG GTCTTCCTA CTTGAAA 87

SEQ ID NO:4767

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05657

SEQUENCE DESCRIPTION:

GATCTGGGCA ATTTTGGCCT TGACTCTTTC CTGGCTCCAG AGCTCAAGCT TAGANGCCAG 60
CCCTGCTATT TCCAGCCTCC TGAAGGCTCA GCACGGTGAG GCCTGACATC CTGGGGAAGG 120
GCAACAGGGA GACCTACAGG ATGNTGGCTG CTTGCAGACT GGTCAATGGG GGATGACGGT 180
GGGGAGGTTG NCAGATGTGA GACTTNNGTA GCATTTNGTA CACATGGCCC TGTAGTTGTC 240
CTTTNGAAGA ACATCANTNA AAATATANGG GTNNTTAAAT TNTGGGNAAA AAN 293

SEQ ID NO:4768

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05658

SEQUENCE DESCRIPTION:

GATCTTGCTA GGAAGGCCA CCTTGATGC CGTGCTGGTC AGTGCCCTCG TGCTGATGGC 60
CATGGTCAAG AGAAAGGATT CCAGAGGCTA GCTCCAAAAC CATCCAGGT CATTCTTCAT 120
CCTCACCCAG GATTCTCCTG TACCTGCTCC CAATCTGTGT TCCTAAAAGT GATTCTNACT 180
CTGCTTCTCA TCTCCTACTT ACATGAATAC TTNINTCNGT TTTTNTGTTT CCCTGAAGAT 240
TGAGCTCCCA ACCCCCAAGT ACGAAATAGG CTAAACCAAT AAAAAANTGT GTGGTTGGGG 300
CCTGGGGNGC AAA 313

SEQ ID NO:4769

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05659

SEQUENCE DESCRIPTION:

GATCCCTCA TCACCCCTGT GCCCACTTCG GAGAACCNT TCCGGGAGAA GAAGTTCTTC 60
TGTGCTCTCC TCTGAGCTCC CCTGTCCCTT CTCACAACTN CTCCCTTTTC CCTCTCCTGG 120
GCCCTTCCTT AGGTCAGTAA TTGTTGTGAG CCCCTTAGGC TCCTTGCATC CCATCCCTAA 180
CCCTTGCCTG ACCATGTGAG GTTATCTGAA GCACAAGNNC CACCCTNANG NNGNNTNTCG 240
ACCCGATTTC CTACCACCTT TTTTGGGCCG ANCCNAAGN 279

SEQ ID NO:4770

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05660

SEQUENCE DESCRIPTION:

GATCCATGTA ATCTGACGTC ATCTGTCTC GAAGTCTCTT TTTTGGCCC AGGCCTTGAA 60
GAATACACTG TGACTTAAGA AGCCTTACCA CGCAGTAACT AAAGCTTTAG GATGACTGTN 120
TTCGAGGAGT GCCGTGTGTT GCATGCAGCT ACCCGTAGGA AGACTTCGCG CATATCACTA 180
ATAAACCTGA AGTCGTGATG AAA 203

SEQ ID NO:4771

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05661

SEQUENCE DESCRIPTION:

GATCGTTGTG CTTTNTTNC TGTGTTGGTT GCCAGTTTAT AGTGCCAACA CGTGCGCGGC 60
CTTTAATGGC CCGNGTGCAC ACCNAGCACT CTCGGGTGCT CCNATCTCCT TN 112

SEQ ID NO:4772

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05662

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATNAGATGGA GGAAGGAAAA 60
AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120
CCACCCAGG AGAGGACCTC GNCCCANGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGN 180
CAGNCTGNGA AACCAGANG CTGGGTAGTC ATGTGGGGCT TGCCTTCTTT TGCCAAAACG 240
NCTGGGGGAA NCCAAAAATN GGGCCCCACC CTTNNTGTTT CTTTCCTTNG N 291

SEQ ID NO:4773

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05665

SEQUENCE DESCRIPTION:

GATCCCAGGC CTNTGGCTAG CAGCACTGAG GACAAGGAAA TGGNTGGTCC CCTTGAGTAG 60
GTCGTTACAA GGCTCAATGC CTGGTNGTCT TGGAGGGTAC TCGGAAATAA ATTGTAGCAG 120
CTTTCCTGCC AAA 133

SEQ ID NO:4774

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05667

SEQUENCE DESCRIPTION:

GATCACCCAG CAGGAGTCGT GGCAGAACGG AGCATCAGCC AGACCCTGTT GTGGGCGTTG 60
TCATCAAGGG AGCTTGAATG GAGGGTCTGG TGTCAGATAC AGCCGACTCC AGCCCCAGCT 120
CATCCCCAT GATGCTGTGT GACCCACTGG GCACTCTGGT GAGGGAGCTT TCCAGACATC 180
AACAGCCCAC TCTGCTTCCC TTTCTGAGTC CCCTGTCCAG CACTGCCTAG TGTTGGAGGG 240
TAGACCAAGG CTGTGCATGA TTCACCCCN CTTCCATCC TGGAGCTGGC AGTGAATAAA 300
AGCCCGTATT TACAAA 316

SEQ ID NO:4775

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05668

SEQUENCE DESCRIPTION:

GATCTCCAGA GACCCAAGTT TAGGTTCTCA TAGTGTATTT GAAGTAGTTA TACTCCTGGC 60
TTAAGTAGTT TAGTGCCTGG GAGAATCCAT TACTGAAAAG CATTTAACTT AAA 113

SEQ ID NO:4776

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05669

SEQUENCE DESCRIPTION:

GATCTAACAA AAATGAAACA TGAAATGCAG TAGCAACCAC TAAAAAAAAA AATTCAAGGN 60
CATCTAACTN TTTCTCTCAC TTTNGCCCTT TGTTTATCCT TCCCTGTGAT TAGATAANCA 120
NAATAAAAAN CAAAATGCTG TATTCTCTN CTTACGN 157

SEQ ID NO:4777

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05671

SEQUENCE DESCRIPTION:

GATCACTTAG AGAAACAGGC CGTTAGGAAT CCATTCTCAC TGTGTTGCT CTAAACAAAA 60
CAGTGGTAGG TTANTGTGTT CAGAAAGTCGC TGTCCTTACT ACTNTGCGG AAGTATGGAA 120
GTCACANCTA CACAGNGANT TCTCAGCCTA CAAATTGTGN CTATACATNT CTAAGCCTG 180
TTTGAGNAT AAACAGGGCA TTTNGCAAAC TAAA 214

SEQ ID NO:4778

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05673

SEQUENCE DESCRIPTION:

GATCAGTTN CAGCAGCAAG TACAAAAGGA GAAGAGGAAC ATCCGTTGAA TNAGTGTGTT 60
TTGTACATAA CTTAGATAC TTGTNAACAT GCCTTATATT TGTCCAACAA CTGTCAGANT 120
AAAGAACATT CTAATAATNAA A 141

SEQ ID NO:4779

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05674

SEQUENCE DESCRIPTION:

GATCTTGTGA AAACACNGTN TTNTCGACTA AAAATTCCAC TNTCTTCATC TNGTTGTGAA 60
 GCTAAAAAGA GGGACTGTTA AATACAATGT ATGATACCAT GGCAAAAATC TTTCTGAAT 120
 TGTCTTTNGT AAAAGTATTA TTGAATTTN CAAN 154

SEQ ID NO:4780

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05676

SEQUENCE DESCRIPTION:

GATCAAAATA GCTATTGCTA CAACATTTTC GAAAACAAAG TTGGGGCTGT ATTTCTTTAA 60
 AAAGATAAGC CTCTAAAAAT GCTTGGCAAA AAAAATATAG TGTAAAAATA GGCCAGTGAT 120
 ATTAATGAGA AAATGAAAGT ATGTATCAGG ANTAANGTGA TATTGCATAG GNGTATTGTA 180
 TTTTATGAA TTTNATGCCA GTTGTTTACA TGTACTATAT ATGTNAANTT ANNNNN 236

SEQ ID NO:4781

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05679

SEQUENCE DESCRIPTION:

GATCTCAGTT GCACGTGCAA ACAAATCCAA ATTCGAACAT TCTTAGGAGG TTTTNTTAA 60
 GGCATGACAG ATGATNTAAA CAAATAAATA GCATGCAACA AAANGTCTTT ATTGNAAGAA 120
 GTGGAAAGTTA TCTTAATGCC ACGGNTCACC ANCAATTNAA AAGTANAN 168

SEQ ID NO:4782

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05680

SEQUENCE DESCRIPTION:

GATCAGTGAA CACTAACATT TTGGGGACAA CTTAGTCAAT TGGTTTCCT TACAACAAAA 60
 TAAAGTAAAA TGTAGCAAA 79

SEQ ID NO:4783

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05681

SEQUENCE DESCRIPTION:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGNAAT GATAATGGAC 60
 TTCAATGANG GATGTCATCA ATNATGNACA TATAGATNGC CTTATAN 107

SEQ ID NO:4784

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05682

SEQUENCE DESCRIPTION:

GATCTAATAA GACACGTAAT AGATTAGAAG TAGGGAAATT AATGAAAAAG CAGAATTAAG 60
GATGACTTCT CACTGGCTTG AAATNCTAAA TGGATGACGG TGCTGTTTAG TGAGTTGGGG 120
AAGACTGGGC GTGGTGATGG GTGTAGAAAT TGAGAAAGGA AAATCAAGAN TTCCAGAAC 180
TTTCAGAGCA ATGTAAATA CTTTCCTTGA TAGTGGGTCA GTCATCATTT ATAAGTGCAT 240
TTCTAAAAAT NTTGCTTAAT TTTNTTTTG AGCTTTGTAT AAGTGAATT TTGTGTGTAC 300
TGATTATNTT GCTCAATAN 319

SEQ ID NO:4785

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05683

SEQUENCE DESCRIPTION:

GATCTTTTCAT CTGTGATTCT TATAAGAGCT TTGTCTTCAG AAAAATAAA AATAAAAGGC 60
ATTGACTTAA ACAGCAAA 78

SEQ ID NO:4786

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05684

SEQUENCE DESCRIPTION:

GATCAGTTGT AAGTTCATTT CTTTACAAAT AAAAGCCTCT TCCATTTGAA A 51

SEQ ID NO:4787

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05685

SEQUENCE DESCRIPTION:

GATCTTTTCC ATCTGAGGGT ACAGGAAGTA CCAGGACCTG TTTCAGTTTT TNAATCCTGC 60
AAGCACATTC CAAGACTGGC CTGAAACTGC ATGAGCAACA TCACTCGAAA TAATTTTTTT 120
TTTCAAANGC ACCTTAACAA CCANTTGCGA TGCTGTCCTG TTCCTTTTTC CTCACACCCT 180
TCTNTCCTTT CTCGTCCCA TGTCCACCA NCTCAGTGCT NTGTGCTGTA TCGGTGTGCT 240
CTCTGTTNTN GTATACTCAA TATANGTGNA ATAACTGGT GTTTTGTN 288

SEQ ID NO:4788

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05686

SEQUENCE DESCRIPTION:

GATCATGCAT GCAGTCATGT CTCCAGTATT CTGTGAAAAG CCAGGATACG TTAGGATGTG 60
 AGTTTAGAAA CTGAGTCCAT TCGGTGCATG GAAATNCACC GCGGAGTTAC ACAANGCTCC 120
 TCACTGTAGT CCAGGCGATT GGTNGGCCGC CACCACCTG CGGGCTTCAC AGGGACGCGT 180
 GCTTGTNCTC CAAGNCCCGN AACCTTACT GTGCACACAN CATCNNACAC ACCTTTGTTT 240
 TTGAAATTAA AATGTTNATT AGTTNAAAAA AGGGNGGN 278

SEQ ID NO:4789

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05687

SEQUENCE DESCRIPTION:

GATCCCGGTG TGTGGCCCAG CTTGTNCAGG CCCTGGNATG CTGCATCTCC AGGCAACTAT 60
 GCACTTTCCC GGGGAGAGAA CCAGTATGAG AAGTGGGGGC AGGGCACACA TTCATCTTTG 120
 TAGGAAGGTC TGGCCTGGGG TCGGGTGAAG GAGGGCCCAG GTCAGTNCCT GGGTCCCAGT 180
 GACCTGCTTT GCCATTNTCC TGGTGCCGNT GCTGCTCCCT GTTCTGGAG CTGGATGTTN 240
 CCNAGCTGGC AGTTGAGCTG CCTGAGCCAA TNTAGTCTAG NCTTTGGTAA CTTGNGTGAA 300
 CCATAATAAN GGGGAACCAT TNTNGGCCTT GTGNAAA 337

SEQ ID NO:4790

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05688

SEQUENCE DESCRIPTION:

GATCACAAGG CTGCCTGCCT CAGTCTTGGA GTCCTGTTGG GTGAATNAGG CAGATGGGAA 60
 ANAGCCTCAC CAGCAGCTGC TTTTGGAGCA GGGGTCCAAG GAAGAGAGGG TGCCCTCGAC 120
 ATCAAAGTGC CTGGATTTT CTACCACCCT GTTACATCAT AACAACTTCT GAAACACACA 180
 CCAGCCCTGA GTTCTGGGCT CATTTGAAGC CTGGAATAGC AATAAATCTT TTAACTTGC 240
 GGACAGTTAA A 251

SEQ ID NO:4791

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05689

SEQUENCE DESCRIPTION:

GATCGAAGAT GTACAATGTT AAATGTNCAT ACCAGTTAAA CTGCACTTTC CCAAGGGGNC 60
 AGCTGGNATC TACTTGAAAT GGGNATCAAG AGACCACCAA ATGTTTACAG TTTCTGTGGC 120
 CCGTTTAAGT GTAAATGCA GAAGTGGCTC TGTCCCCCA GAGTTAAGGN TTTGCTACAC 180
 TGGTCTCTG GAAGCATTTA NGTAGAAGAA AAGGCTTATA GTCAGNNTCA CTTTGTAGTA 240
 TCGTCTNCTG GTCCTTGNC TTTCTGGTT CTGTNANTGC TTGTAACCAA TGANTGATGG 300
 TGTGCCAAT CTNAGN 316

SEQ ID NO:4792

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05690

SEQUENCE DESCRIPTION:

GATCAGTCCT GTCATCCAGC TGCAGCCAC CTTACACCC ATGCGGGTCG CACTNGCTGG 60
CACATTCCAC TACTACAGCT GCGAGAGAGC CAAAAAGGCC ATGGGCTACC AGCCACTAGT 120
GACCATGGAT GATGCTATGG AGAGGACCGT GCAGAGCTTT NGCCACCTGC GGAGGGTCAA 180
GTGAGGGNCA CTNGNGGCTG GGCTCTCTNG ACACGTTGCT CAGCCAGTCA CTNCTTCCC 240
TGNTGGATTG ATGAGNTAAC ATCCTTTNGA ATGGAGTTN GCTCTTTGCC TGTGACTCCT 300
TCTGCTAGGC AGNGGAGCGC ACCNTACTNT TTNCGTNGCG GTGNGN 346

SEQ ID NO:4793

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05692

SEQUENCE DESCRIPTION:

GATCCCAGGG ACTCATCCTG TGACTTTGTA ACCACACTCA TTCCTTTCAA ACACAGAGGA 60
GGAATTATTG CTTCACTGA CTTTATTCAA ATCTAGTTAT GTATTGGCCT AAATTATTG 120
TGCAAAATTT GAANNNNNT TTNATTAAA TATTAGAAAT AGCAGAAAGT CATGGNGTTT 180
TTAANAN 187

SEQ ID NO:4794

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05693

SEQUENCE DESCRIPTION:

GATCTCAAGA GCCCTGTCAG TAGAGTAGAA GTCTCTTCCA GTTGCTTTG CCCTTCTTTC 60
TACCCTGCTG GGGAAAGTAC AACCTGAATA CCCTTTTCTN ACCAAAGAGA AGCAAAATCT 120
ACCAGGTCAG AATAGTGCCA CTAACGGTTG AGTTTGGACT GCTTGGAACT GGAATCCTTT 180
CAGCAAGACT TCTCTTTGCC TCAAATAAAA AGTGCTTTTG TGAGCAAA 228

SEQ ID NO:4795

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05694

SEQUENCE DESCRIPTION:

GATCTGCTTA AAGTTTAACT TTTTATACCT ATCTGAGTGA ATTACAGACA ACCTATCATT 60
NATNCTGCTN CGAGGGTCCC CAGGGCCCTT GTACAACCGA CAGNTCTTAC TTTTAAATGC 120
AATCTCTTGT CTACATACAT NATTTTCTTA ATNNGTTAGC TATTTATAGA AAGCTGCAAT 180
AGAACTGTNT CAACTGTATA ACTATTTACN ATTCANAATA NAANTATTN 230

SEQ ID NO:4796

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05695

SEQUENCE DESCRIPTION:

GATCTCATTT GCTGAATGAT TGATTAAAGA GTAAAATTNG CCACTGCGTG CTTTTTGTAT 60
AGTAACCGGT TTTGTTGCAC TNGTCTGTGG CTGAAACACT TACCTGCAGT GGAANGCCGA 120
GCAAGGAGGA GGTAAACATT GGAGATGTTT GTGAAAATAT TACTCTTGCT GTGAGGTTTT 180
AGTTTGTTTT GAATGAGAAA GGGGCTAAGT AACTTAATCC ATCTCAATGT AGTGTTTTAA 240
TAAAAANGGN GCCTAATATT TGAAATGGGG TCTCAGGNCA TGNTCTACAA ATNTGGGGNA 300
NCTATTTTTN ATGCCCCGTG TAATTTTNCA CCATTTTGNN NATGAGTTNA TTGTAGGGGT 360
CANNATN 367

SEQ ID NO:4797

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05696

SEQUENCE DESCRIPTION:

GATCTTTTCT CAGAGCGTCT CCATGCTATG GTTGCAATTC CGTTTTCTAT GAATNAATTT 60
GCATTCAATA AACAACCAGA CTCAGAAA 88

SEQ ID NO:4798

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05697

SEQUENCE DESCRIPTION:

GATCAAAAGT GCAGCATTCC TTAATTCCTT CTGCTATATG TCACACAGTT GTTATTTGGA 60
GAACCAAGTA TGTATTGCAT GAAAACATTA TGACTTTTTT CTCTTAGTTT AAATAAACTC 120
CAAGGTAACT GGACTTCTAA AGCACCTTTC TGTTTGCTTG ATATCTACTT TAGCAATAAT 180
TTTTTTTACA ACCCTCTGAC TCAACAAAGT AAATAAAAGT ATATTTTATC ACTATTAAA 239

SEQ ID NO:4799

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05701

SEQUENCE DESCRIPTION:

GATCTGGCCT TATGCCCAGG CCTGGGCCCT CAGAAAGCCC GGAGGCTGTT TGATGTCCTG 60
CAGGAGCCCT TCTTGAAAGT ACCCTGATGA CCCCAGCTGN CAAGGAAACC CCCAGTGTA 120
TANTAAATCG TCCTCCCAGG CCAGGAAA 148

SEQ ID NO:4800

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05704

SEQUENCE DESCRIPTION:

GATCCTCAAC AGACACCTTC CTTGACTGAA AGTTTTAATC GTGATGCAGA GNCAGTCAGT 60
NATNTNCCGC CATCCACAGG AAATTCAGCA TCTTTATCTC TNCCACTTN 109

SEQ ID NO:4801

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05707

SEQUENCE DESCRIPTION:

GATCAATTCA ATTAGATTAA AATNAAGAAC CTTGGGGCAG AGTTTGGGTT TTGTAAAATN 60
AAAAGAGTTC TGGAGTTAAG CATCGTGAAC ATGCTTAACA CTACTGAACT GTACACTCAT 120
TTTATAATAA AACTATTAAA TTGTAAA 147

SEQ ID NO:4802

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05708

SEQUENCE DESCRIPTION:

GATCTAATTT AAAATTCATT GGATTGAAAT NTATTGAATA TAATTCANCT TTTGTAACTA 60
GGTAGACTTT NCTNATAGTT TAGTTTTAAT ATAGTTTAGG GTATTACTGG CTTTCCCCA 120
GGTGACACAC TAAGGNCGTG TTACATGGCA ATTCCAGCAG CAACAGGNGG CTGGAATTNA 180
GACAAGGAAA GCTCATTGT TTCTTTATG AAGGTTAAAG AAGTCTACAG CTTGGGCTGG 240
CCGGTATTTA TTNATTCTGT GGCCAGAGGA TTTTAAATTT NNCNCNAATN TTNTN 295

SEQ ID NO:4803

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05709

SEQUENCE DESCRIPTION:

GATCATGCCA CTGTCCTCCA GCGTGGCAAC AGAGTGAGAT TCTGTCTCCA AA 52

SEQ ID NO:4804

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05710

SEQUENCE DESCRIPTION:

GATCAGATGG GGACACACAA CCCCTGGATA TGTTTCATTG TCAGATTTTG TGCTGNNATT 60
 TTAAGAATGG AATGGTGGGT ATCTTTCCTT TTTTAAATG TATCTTAACT GTGCCTGTC 120
 AGTGNNNACA AACTAGTGCG TTGACGGCAC CGTGTCCAAG TTTTGAAC CCTTGTTAGC 180
 CAGACCGAGG TGTCCTGGTC ACCGTTTCAC CATCATGCTT TGATGTTCCC CTGTCTTTCC 240
 CTCTTCTGCT CTCAAGAGCA AAGGTTAATT TAAGGACAAA GATGAAGTCA CTGTAAACTA 300
 ATCTGTCATN GTTTTACCT NCCTTTTCTT NTTNAGNGC AGAGGTAAA AGTAAGTATN 360
 AAGCACCCGT GAAA 374

SEQ ID NO:4805

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05711

SEQUENCE DESCRIPTION:

GATCTGACTG TGGAAACATC CTCTCACTG CATTCTTTTA ACTTAAACT ATTTAAGAAC 60
 TGATGTTCCG ATTATTGTAT ATATTNNCT AAAANCCAAA TAAAGCTACC TATGAAAATG 120
 AAA 123

SEQ ID NO:4806

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05714

SEQUENCE DESCRIPTION:

GATCAAACAG GAAATTGAAA GCCACTGNAA CTATGCAGCA TTTCAGTTT CATTAAACA 60
 CTTAGTTCAG AAACCTTAAA GGATTGANT ATTTCAAATT GCACACGTCA CTCCAGCATC 120
 TCTGTAANAT AATTGGAATG AANATACTTC TTGCACTTAA ACACTGCACA TGCCGTNCTT 180
 TGCGGTTNGT CTGCATCTTG AACTTTAATA CCAANTTNT TTTGCATGCT TTTGTTTCCT 240
 ACGNGATAAT GGCATGGTTT CATATGTNAC TACTTTGGAC CAGTGTTC ANNATGGNN 299

SEQ ID NO:4807

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05715

SEQUENCE DESCRIPTION:

GATCTGGACA AATGACAGTA ACTGTTTCTA ACCTTGATTT TCTCATCTNT AAGATGCCAA 60
 TTGTAACCTC TAAGGNTACT GAGGATTTT TAAATGCGT GTACAGTTCC TGACCAGTGG 120
 TTTGTGCCTA ATAACNTATT ACAAATNATT ACCNAGTAAA ANCCTTGC GC CANGTGTGAN 180
 AACGTAAAGC TANTTAATCC ATNN 204

SEQ ID NO:4808

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05716

SEQUENCE DESCRIPTION:

GATCAAGCGA CCTTGAGAGC AGAGNACAAA TCCCAGTGTT GCTGATATAT GGCTTCTNCT 60
 TCTCTTGTGT GTGCCTCAGC TCTGAAGNAG TTCCTGAGAA TGGGTTACAG ATGTCATGTT 120
 AGCTGGGAGT CTTCCACAT GTGGCACTTC AAAAGGCAGC ACCACTGGGC GCCTGCACTT 180
 ATTTGAAAAT GGNACTTTGG GNGAAGTATC CCTGCTAGTG GCTCTGTAAC TTAACAGATG 240
 TCANTTAGGC TTTTGTCAAT GTTGCCATCA TATNNANGCT AATGNTACA TCCTTTTAAA 300
 CANNTTGNGT ATGACAATTN CCTCAGGATT TNGGGTAAGN CTTCCCAN 348

SEQ ID NO:4809

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05718

SEQUENCE DESCRIPTION:

GATCCTCCTG CAGACCACGC CCGTCCTGCC TGTGGCGCCG TCTCCAGGGG CTGCTTCCTC 60
 CTGGAAATTG ACGAGGGGTG TCTTGGGCAG AGCTGGCTCT GAGCGCCTCC ATCCAAGGCC 120
 AGGTTCTCCG TTAGCTCCTA TGGCCCCACC CTGGGCCCTG GGCTGGAATC AGGAATATTT 180
 TCCAAAGAGT GATAGTCTTT TGCTTTTGGC AAAACTCTAC TTAATCCAAT GGGTTTTTCC 240
 CTGTACAGTA GATTTTCCAA ATGTAATAAA CTTTANTATA NAGTAAA 287

SEQ ID NO:4810

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05719

SEQUENCE DESCRIPTION:

GATCACCACC CCGAGCCCTC TNATCCTCTA TGGNTTCACT CCCATCATGA TTTGGAATTA 60
 TTTATTTGTG AACTTGATTA GCCGAGATTG TAAATNACAT GAGGTCAGGG ACTGGACTGG 120
 GTATGTTTTT TTCTCTGTTG CTTTCCTGGC ATGAAGTACA GTAAATACAG CACCTGATAC 180
 ATTATACATG GCCACAAATA TTTGTTGAAT GAATGANTAA AAGCACATTG GGTTCTGACC 240
 ATTCAGTGTC CCTGNAANGA ATGCAGTTTT TCAAACCTGT GCNTCACCAT CCATTAGCGG 300
 GNGTGTGAAT CCAATTTAGG TNGGTGATGT CTAGCATTNN AN 342

SEQ ID NO:4811

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05720

SEQUENCE DESCRIPTION:

GATCATTAAC CAGAGTACCT CTACTCTTAG CAAACTCTAG TTTATGACAA GTATTTAAAA 60
 TATTTAAAC AAGCTTATGC AGTTCTTAAG GNCGNAGGTA AATGAGATGT ANCTTAAAAA 120
 TAGTATTGGG AAAATGTTGA TAGTTAACAT TAGTGGATTT AGACTAGCCA AATGACATAG 180
 TAGGCTCTGA AACATCTTGT CAAGTNTATG TTTTTGTGC ATGANTTTTT GCTGGAAAGC 240
 TGTCTTTCTC TGAACAAAC ANCGTTCTTA GACTGNNANG CCANTTATAA CNTAANN CN 299

SEQ ID NO:4812

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05721

SEQUENCE DESCRIPTION:

GATCTTNATG CCCAACATTG GTTATGGAAG CAACAAAAAA ACAAAGCACA TGCTGCCCAG 60
 TGGCTTCCGG AAGTNCCTGG TCCACAACGT CAAGGAGCTG GAAGTGCTGC TGATGTGCAA 120
 CAAATCTTAC TGTGCCGAGA TTGCTCACAA TTTTNNGNTC CAAGANCCGC AAAGCCATCG 180
 TGGAAAGAGC TGCCCAACTG GCCATCAGAG TCACCAACCC CAATGCCAGG CTGCGCAGTG 240
 AAGAAAATGA GTAGGCAGCT CATGTGCACG TTTTCTGTTT AANTAANTGT AAAANCTGCC 300
 ANANAAANTN 310

SEQ ID NO:4813

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05722

SEQUENCE DESCRIPTION:

GATCCCTTTT CTTTGTATGG ACCAGAAATN ATGGGTTGTA CAGGGTGCCA GATAGATTGG 60
 AAA 63

SEQ ID NO:4814

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05723

SEQUENCE DESCRIPTION:

GATCCAGTG CTCTACTGGG GGATGAGAGA AAGGCATTTT ATAGCCTGGG CATAAGTGAA 60
 ATCAGCAGAG CTCTGGGTGG ATGTGTAGAA GGCACCTCAA AATGCATAAN CCTGTTACAA 120
 TGTAAAA 127

SEQ ID NO:4815

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05724

SEQUENCE DESCRIPTION:

GATCGAATAC AGATGACCCT GCTGTCGTGT CTTCATTTGT AAAATNCTCC TACAAATGGA 60
 GACATTGAAG GATTATGTGT ATGGAAATNT TTACAAAATT CCTTTCTGTA CCTATTCTGT 120
 AGATGCCTGT ATAATCGGNC TGGATGTACA GCTATAAATG TGTGTGAGA GCAAGAGAGA 180
 GAGAATGGGT AGAGCCTGCT GTACCTTTTT CCTTTTAAAT TCTTCGAGTT GGTAATGAG 240
 TAAGATATTG GAAACCTTAA TGNAAAGCTG CTGTTTCATGN TTTGTGTGTA TAGTGAGCTG 300
 CCTGTAGTAT TTNCTATTG TCTGNTAAAA AAAGNAAANC CTGTAAAAACN 350

SEQ ID NO:4816

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05725

SEQUENCE DESCRIPTION:

GATCTTGAAC AAAGNCACTT AGTTNCCCTG GGCCTTGGTG TCTTTCGTCT ATAAAATATT 60
GTACCAGATT ATCTCTGAAA TCACTNCAAG GTTAAATATA TATANTTATC AATATTTTAA 120
AATTCAAGCA ATATTCCTT TAGANATTAT TATAACATTC TATANTNGTN GGGGGGGN 178

SEQ ID NO:4817

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05726

SEQUENCE DESCRIPTION:

GATCGAATCG GGACATNATG GGAGCTGACA AATTTATATT CTNTTCAAT NATTTTAATC 60
CCACTTCACT GTGAGGGGAA GGCCTTTTCA CGGGAACCTCT CCAAATATTA TTCAAGTGCC 120
AAA 123

SEQ ID NO:4818

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05727

SEQUENCE DESCRIPTION:

GATCCCAAAT TTGTCCATAG CTGAAGTCCA CCATAAAGTG GATTACTTT TTTCTTTAA 60
A 61

SEQ ID NO:4819

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05729

SEQUENCE DESCRIPTION:

GATCTATAGA ATTAGATTTN NTTATATCTA AAGAAATATA TATAAATACA TAAACGTAGG 60
TATGTATAGC ATGANCAGAA TACAGTGCTA TTTGACCATT GTCACAAGAC TTATTTATAA 120
AACCTCCTCA AGCTCTTGCC AATATCTTAG TTAAGNTTGC ATCTAAGGTG GCGGNGGAT 180
GNNGATTGAG GCACTGTCAG GTCATGNTTG ATTACCTGGG TGACAANATT ATGTTTACAC 240
CAAACCCCA TGNCACACAG TTTACCCATG TGACANNACN TNCACATGTC CN 292

SEQ ID NO:4820

LENGTH:61

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS05730

SEQUENCE DESCRIPTION:

GATCCCCCAT ATACTCTGCT ACAGCTCCTA TCATGAAAAA TAAATGTTT GTCTTTGCAA 60
A 61

SEQ ID NO:4821

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05731

SEQUENCE DESCRIPTION:

GATCCGNTGG GGTGAAAGCA GCCAGTCAT CCCAGTAACT CACAGGACAC AGCCATCCAG 60
CGGCATCTTT CTTGTGCGAA TGATACTGTA ATNACCTTCC AAAGTNAAGA GTAGCACATT 120
AAAGTNATTT TATTGTTAAA 140

SEQ ID NO:4822

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05732

SEQUENCE DESCRIPTION:

GATCTCAATG CTGTCTGGGG ACCCTAAGAG TTTNCTNACC TGTNCAGTCT CATCTAACCT 60
TCCAATGTCT GATGTTCTTG CCAAATTCCT GCCTGATTCT GGGTCCGTCC TGACCTCCAA 120
AGGTCAGCTT GGTGCTTGAG GTCTCCCTGC TCTTGGTGGC AGTGGTAGCA GCAACAGCAG 180
CAGCAGCAGC AGCAGCAGCA GCAGCGNCCT CTCCACTTTN CCTTNGCCCN TCTNCTGGGT 240
AGAGAGGCAC TTTCAGGGAC TTTCCTCCAG GNTGGNTCNT CAATATGGGA ATGNGCTNTG 300
NAAGGNTTN 309

SEQ ID NO:4823

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05733

SEQUENCE DESCRIPTION:

GATCCTCCTG GCGGCAGTAG CCTTGACAAG GGCCACCTCT TCACAGGATG CAGTCTGTCT 60
GTGCACCAAA CTCTTCACCA AATAGAACAC TTGTGTCTCT CTGTGGAAA 109

SEQ ID NO:4824

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05734

SEQUENCE DESCRIPTION:

GATCCATTG GNAGGAAATG AGAGGGCTGT NATCAGCTCT NATTAAGAAA GGAGATTCT 60

01483

TCATGCTTTC GATTCTGCAT GGGGTACAGC CAGTCACCTC ACCAGAGANT GACGGCTGGA 120
 GAAGTNAACT CTGTAATACC ATAAATAAGA GTGCTTGTA TAAAAGNCTG TGCACANGGA 180
 TTAATATTTT CCNTCTTAAG TATCAAACGA CCTCTGGANC AAATTNTACC NTN 233

SEQ ID NO:4825

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05735

SEQUENCE DESCRIPTION:

GATCTGACGT TTTCTACGTA GCTTTTGTAT TTTTNTTTT TTTAAANTTG AAGGACCACT 60
 GATGAAGCCC TNCCANACCC CTCCCGGGTC TAANAAAACG TN 102

SEQ ID NO:4826

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05736

SEQUENCE DESCRIPTION:

GATCAAGAAA TNTCTCTNCT CCTACATCCA GCTCCTCTAG GGGCAGCCTC CGTCATCCAT 60
 GCCCTCCCAG GACCCTCCAC TCACTGCTGT GAGTGCCTC CACCAGAACC AGTTAAGAGA 120
 CAACTATCAA TTNNGGGGAC CCAAATTATA AGGGCCCTGN CCTGTACTGA AGNAAAGGGG 180
 NGCACAAGGC CTTAATGGAC ATTGNCTTGT GAAAACGCAN ACATGAATAT GGTGGGAGAG 240
 CNTGGCTTAG GAGGGTGTCA TGGGGNAGNA GNGGCTN 277

SEQ ID NO:4827

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05738

SEQUENCE DESCRIPTION:

GATCCCCTCT CTGCCCCAAG CACTTCACAG CTGGACCCTG CTTACCCTC ACCCCCCTCC 60
 TGGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA 98

SEQ ID NO:4828

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05741

SEQUENCE DESCRIPTION:

GATCTGGGAT TTTNTTTTAA TTTTGAAATG GGAGCTTTTT TGTTTACAAG TTCATTAAAA 60
 ACTAAAAACT GTTCTGTAA A 81

SEQ ID NO:4829

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05742

SEQUENCE DESCRIPTION:

GATCGATTTC TTTCTCCAG GTAGAGTTTT CTTTGCTTAT GTTGAATTCC ATTGCCTCTT 60
 TTCTCATCAC AGAAGTGATG TTGGAATCGT TTCTTTTGT TGTCTGATTT ATGGTTTTTT 120
 TTAAGTATAA ACAAAGTTT TTAATTAGCA TTCTGAAAGA NGGAAAGTAA AATGTACANG 180
 TTTANTAAAA NGGGGCCTTC CCCTTTAGAC TAANTTTCAG CATGTGCTTT CAAA 234

SEQ ID NO:4830

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05743

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCAGCCTC CCAAAGTNCT GGGATTACAG NCATGAGCCA CCATGCTCAG 60
 NCGTGTGTGT NTGTGTGTAT TATTTATATG TATATGCATA CTATATACAT NTATATATAC 120
 ACTATATAAA 130

SEQ ID NO:4831

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05747

SEQUENCE DESCRIPTION:

GATCTTTAAT CAAGCACTAT GTTAATACTG TAATATCAGA ATACTATGTT GCATTATTTA 60
 AAATGTTCAA ATTGAATAGN TTAAAANGTT TTAAATNCT AAA 103

SEQ ID NO:4832

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05748

SEQUENCE DESCRIPTION:

GATCCTTGGT GCTGTGTGCC CCACTCCAGT CTGGGGACCC CACTTCANAA GGTAGGGGCC 60
 GTGTCCCGCG GTGCTGACTG AGGCCTGCTT CCCCCTCCCC CTNCTGCTGT GCTGGAATTC 120
 CACAGGGACC AGGGCCACCG CAGNGGACTG TNTCAGAAGA CTTGATTTTT CCGTCCCTTT 180
 TTCTCCACAC TCCACTGACA AACGTCCCCA GCGGTTTCCA CTTGTGGGCT TNAGGTGTTT 240
 TCAAGCACAA CCNACCACAA CAAGCAAGTG NATTTAAGG GGGTTGTGCT TTTTGTGTTN 300
 GTGCTAACGT CTNACTAATT TTAAN 325

SEQ ID NO:4833

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05749

SEQUENCE DESCRIPTION:

GATCTGAAGA GAAGCCAGAG TATAATTTNC TACTATTTTC AATACAAAGN TGTGTTTCA 60
TTACAATTAG NGGAATATAG GCTTCTGTGA GCTAGCCTGG AAGCAAACAT AATCATTATT 120
GTNCATTGTT TCTGTGNGAN ACTGTAATGC TGTTTCTAAA TATTGACCTA ACANTAAACT 180
CTGNGGAATT CATGCTGTN ACTGGNTGGA AN 212

SEQ ID NO:4834

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05751

SEQUENCE DESCRIPTION:

GATCTGGCCT TATGCCCAGG CCTGGGCCCT CAGAAAGTAA GAGCTCTGGG AAAGAACCCA 60
AGGAGTTGGG GGAAGGAGAG AGCCCCAAAT AAACACAACC TGAGACCCA AAGTTTAAAG 120
GTGNAAAANG NACCAAAGAC CAGNCACAGT GGCTTCCGCC TGAATCCA NCATTTTGGG 180
NGGCCAAGGC GGGAGGACTG CTTGAGGCCA GAAGTTGGNG ACCATGCCTG GGCANCGTGG 240
NCACCTCATT TTTACTACAA ATNAAANAAN CTTGCTGNG TAAA 284

SEQ ID NO:4835

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05752

SEQUENCE DESCRIPTION:

GATCCTACTG ATGAAATTCC CACTAAAAAG TCAAAGAAGC ATAAAAAGCA CAAAAACAAA 60

SEQ ID NO:4836

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05754

SEQUENCE DESCRIPTION:

GATCAAAAAA TTGAATGATA AATATGAATG GCTTTTCAAT TCTGTGGACT TTGTACCATT 60
TGGCTTCACC TTGTACTGCA AGATGAATTT GTAAACAAAA CAAAATTGGN CTGTCTGGAA 120
AGCTAAAGTN CTGAAATATG GAAA 144

SEQ ID NO:4837

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05755

SEQUENCE DESCRIPTION:

GATCACAATG ANGGCCAAGC TTGCNCGCNT AGAGGCCAG GAGCAGGCCT TCCTGGCTCG 60
TTTCAAAGGC CAGGACCCTG GGGCCCTCA ACTGCAGTCA GAGAGCAAAG CCCTTAATAA 120

ATATTTNACA TCCTTAAA

138

SEQ ID NO:4838

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05756

SEQUENCE DESCRIPTION:

GATCTTGTTT ACATCTTGCT CACTGCTATA TTCTCATTGC TGAGCACACA GTTGCAGCTC 60
 AATAAATTTT GAATGAACTC CAAA 84

SEQ ID NO:4839

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05757

SEQUENCE DESCRIPTION:

GATCACCTNA TGGATGTCGC AATAATACAA ACCAGTGTAC CNCTGACCTN NTCATCAAGA 60
 GAGCTGGGGT GCTTTGAAGA TAATCCCTAC CCCNCTCCCC CAAATGCAGC TGAN 114

SEQ ID NO:4840

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05758

SEQUENCE DESCRIPTION:

GATCTGCACT ATNAACTTTG TGAAGAGTTT CTCCTAAAAA CTTTAAGTAA AATGTTAATG 60
 GTAGCTTTGA TAACATCAAA TTCTAAGGGA GAAAAAACA ATATTAAACC GCCCAAGCAG 120
 TGTGCCCTAG CAGAGGAAAA TGCAACATCT CGCAAGCGCT GCTGTAACGC CTTCAGGAGT 180
 CACTGATTCA GCACTAGTTT CCGGCTGTGA AAACATCATCT TTCATTTTTN CCGTGGNTNG 240
 GCGCTTTTNT TANTNGTNGT CCTAATGANA TTTCTGNCAT TGTCATATAC AANCGNTGAA 300
 TATCATTAAG ANTTTTTNAN TNN 323

SEQ ID NO:4841

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05759

SEQUENCE DESCRIPTION:

GATCAAAAAA ACGTTCTTTG AAGAGCTGGC AGTAGAAGAT AAACAGGCTG GGGAAGAAGA 60
 GAAAGTNTCT AAGNGANGG AGCAGCAGCA GCAGCAACAG CAACAGCAGC AGCAANANAN 120
 N 121

SEQ ID NO:4842

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05763

SEQUENCE DESCRIPTION:

GATCTTCACC AGCTGCTCGT GGTGGCTCGG TGTCTGTCTC TCAGTGCTGG TCAGACAACG 60
CTGTCAAGAG ANCGATGGCT GAGAGCAAAG CAGCTAGAGT CTTAAGAAG AACGAGGCTT 120
CAGCAGCAAA AATGTGTGAA TGGAAATNAA CTTTAAAGAT GTAATACCTA TGAAGAGTAA 180
TGGGCAAACT GTAGCCACAT AATTGTAAAA TTCAGATATT CATTTATACC ACATTGTTTT 240
ATAGGTAATT TCTATCACA ACCAGTGACA TTCCTGAAA TCANGCCTGG TAACACCTGA 300
TGTTTATATG ATATTAGTA AGGACTTTTA CCTTACTGAT TTCATGGNGN N 351

SEQ ID NO:4843

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05765

SEQUENCE DESCRIPTION:

GATCTGAATT TCCCATGCT TCCTGGTTTT NATATGTTTC TTGACAAATA AAGCTGATTT 60
AAATCTCTAA A 71

SEQ ID NO:4844

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05767

SEQUENCE DESCRIPTION:

GATCTTTTTC TTTATCTCCC TTCCCCTTCC TAAGTCCCAT TTCTTGGTCA TAAATATTGC 60
ATTATTACACA CTTTCAAAC GTGTATTTTC TTACAATAAA AAATGATGAA A 111

SEQ ID NO:4845

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05768

SEQUENCE DESCRIPTION:

GATCTCACCA CCCACCTGGC CTCGCAGGGC GTTCATCTCC TCCTCGTGGT TCTTCTTCAG 60
GTAGGCCAGC TCCTCCTTGA GGTTCTCAAT CTGCATCTCC AGGTCGGCTC TGGCCAGGGT 120
CAGCTCATCC AGCACCCTGC TTCAGTCCCT TCCCCTGCT TCCTTGCCTG ATGACAATAA 180
AGCTTGTTGA CTCAGCTATA AA 202

SEQ ID NO:4846

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05769

SEQUENCE DESCRIPTION:

GATCANAACC CTAGCGCCTT TGGTCCTAAG AATGGNAGGC TGCCTTCNT CCCAATCTCC 60
 CTGCCAGGGC CCACAGCGTG GCCCTAGCCC TCCCCTCCCC GGAATGTAGA ACGGGGACCC 120
 TCGCAGGGTT GGGGCGGGGG CTGATACTCC TNGGNCCCTC CCTACCCTGC CCTGTGTGTT 180
 GGCTTTNTGG CCGTCCAAGT GCCAATTGGG TTTTNGCCCA AATAAGGGCT GGTATTTNTN 240
 CTNTGTNCTT GGAGGTGNGN TN 262

SEQ ID NO:4847

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05770

SEQUENCE DESCRIPTION:

GATCTGTATG TNAGGCACCC ATAACAGTAG TTTCCCTGT NAGTCGTCTT CACACATGCT 60
 GTTTTCTCTG CCTGGCTCTC TCTTCCCCTC CTTACCTGGC CAGTCCTGTT TATCATCAGG 120
 CCTGTNTTG GATATNACGT CCTCTGGGAA GTCTTCTGGG NCCCTCTAAC CTAGGACCCT 180
 CATTACCGGN TCTCATAGNA CAGTCTACTG NTTTGTACGG AATTCTAAGT ATTCNNGTG 240
 GNACTNAATN 250

SEQ ID NO:4848

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05772

SEQUENCE DESCRIPTION:

GATCATTCTT CAATTAGGAC ACAAACCAGA CAGGTTAAT AGCGAATCTA ATTTTNAATT 60
 CTGACCATGG ATACCATCA CTTTGGCATT CAGTGCTACA TGTGTATTN ATATAAAANT 120
 CCCATTCTT GANGATAAAA AAATTGTNAT TCAAATTGTT ATGCACAGAA TGTTTTTGGT 180
 AATATTAATT TCCACTAAAA ANTTAANTGT NTTTTAAGGG ANNNGAN 227

SEQ ID NO:4849

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05773

SEQUENCE DESCRIPTION:

GATCTAAATA TAAGAGCAAA AACCATAAAG CATCTAAAAG TAATTGAAGG AGAAAATCTT 60
 AGTGCCTTTT GTNCTGGCCA AGATTTTTTA AAGAGGACAT AGAAGTCAGG AACTATAAAA 120
 GAAACAATTT TAAATTTTNC TTTATCAAAA TAAAAGCCA TAGACCGGGA TAANNCATTT 180
 GCAANATATA TNTCTGACAA AGTTCTTGAN TCAAGANTAT GTAAANANCNG N 231

SEQ ID NO:4850

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05774

SEQUENCE DESCRIPTION:

GATCAGCCTG AACACATAA TAAGACCCTG TCTCAACAAA AAATACAAA ATTAGCTGGG 60
 TGTGGTGGCA TATGCCTGTA GTCCCAGCTA TTCAGGAAGC TCCATTGCAA TCTAGCCCGG 120
 GTGACAAA 128

SEQ ID NO:4851

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05775

SEQUENCE DESCRIPTION:

GATCCTTCCT TCAACCCCAA GGCCAGCTCC CATCTCATTT CCAGAAAGGC TCATACCTGG 60
 CTTGCAGGGA AGCATCTGTC TTGTCATTCC AGGTGCCAGA ATCCTCTCAG AGTCATTGAA 120
 GGGTGTTCAC CCATCCCACC CAAGGCTTGG CACACTGCCA GTNTCTTAGC AGGGTCTTGT 180
 GAGGGCTGGG GGCATCCAGG CACTCAGAAG GCAAAGGAAC CACCCTACCC ATTTGGCCTC 240
 TGGAGGGGGC AGAAGAAAGA AAGAAACCTC ATCCTATATT TTNCAAAGCA TGGGGGTCT 300
 NGCATTAGC TCTGGNGGGT GANCCANTGT GCTTNCTTGN TTAAGTGTCN 350

SEQ ID NO:4852

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05776

SEQUENCE DESCRIPTION:

GATCTCAGTT TCCCTCACTC AGGAACTCTG TTTCTAAAGT CTTCAGTTAA GTTNAGTTT 60
 ATNACTGAGT GGCCTGTACT GTCAGACGTG AATGGGCCTG ACGGGCAAAT CCATCCCTCT 120
 CTCCCTCACA GTTCCAGGAG CGGCTTCCCT CGTCTCCCCT TACTCCACAG GGAGCCTCCC 180
 TTGCCAGGAC CAGGGCTGCG ACGGCCATGC TGGGGCAGGT GAGTGCTCTG TTAGCTGCTC 240
 CCAGTGCTGT CCNAGGCTG CAGTTCTGGT CCNNGGGGTG TNAGGGTAGG GAAGGGTGCA 300
 CTTGAAGGAN GGTGGTTCAA TTTGGGNTN CCTTAACGTT TATAGTCTNN ACAAN 355

SEQ ID NO:4853

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05777

SEQUENCE DESCRIPTION:

GATCCAGGAG TTTAAGGTTA CAGTGAGCTA TGACCGCTAC TNACTCCAG CCCAGNCAAC 60
 AGAACAAGAC CCGTTTCAA A 81

SEQ ID NO:4854

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05778

SEQUENCE DESCRIPTION:

GATCCTCCGT AACATTNCNA GACCAGANAG AACATCCAGA AATCCCTGGN TGGAAGCTCA 60
 GGCCCCGGGG CCTCCAGCGG CACCAGCGGA GACCACGGTN AGCTCGTCGT CCGGATTGCN 120
 ACGATTAAAG ACTGAN 136

SEQ ID NO:4855

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05779

SEQUENCE DESCRIPTION:

GATCAAATAT TTTTNATTAA CCTATATAAA GAATTTGACT GCTTATGATT CAATACATAT 60
 GATTTAATAA AATAGATTGC ATTTTNNAAA ATAAAGAATG ATTNAAAA 108

SEQ ID NO:4856

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05780

SEQUENCE DESCRIPTION:

GATCAACCTC TGATTTTACA TCATGATGTA ATCACCCTG GAGCTTCACT GTTACTAAAT 60
 NATTAATTC TTGCCTCCAG TGTTCTATCT CTGAGGCTGA GCATTATAAG AAAATNACCT 120
 CTGCTCCTTT NCATTGCAGA AAATTGCCAG GGGCTTATTT CAGAACAACCT TCCACTTACT 180
 TNCCACTGGC TCTNAACTC TCTAATTAT ANGTTTGGT GAACCCNCAC CCAGGCAGTT 240
 ATCCATGAAA GNACAAGTGG ACTAGTNCTA TGNNGTACAA AGGCCTGTAT CNTCTGTNG 300
 ATGGATTTC TGGTGTCTT NGCTTGTTTG CAAGTTGCTT AANTTAAAGG CAGNTNTTN 360
 TN 362

SEQ ID NO:4857

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05781

SEQUENCE DESCRIPTION:

GATCCTACCG GAAACCAACC TGTTTACTGT ACTGTTGTAA ATATCATGCC CTTTATATCC 60
 TGTATATTGG CTTCTTTTAA ATAAAGTGAA ATGTCTTAGA AA 102

SEQ ID NO:4858

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05782

SEQUENCE DESCRIPTION:

GATCTAACT TTATGCTGCA TAAATCACTT ATCGGAAATN CACATTTTAT AGTGTGAAGC 60

ACTCAANNTN TAAACCTTAT TATCTAAGGT AATATATGCA CCTTTCAGAA ATTTNTTTC 120
 GAGTAAGTAA AGCATATTAG AATAATTGTG GGTGACAGA TTTTAAAAAT AGANTTTAGA 180
 GTATTGGGG TTTN 195

SEQ ID NO:4859

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05783

SEQUENCE DESCRIPTION:

GATCCCTTTG AAATNTTTT TTTGTTTGT TGTAAATC AAGCCTGAGG CTGGTGAACA 60
 GTAGCTACAC ACCCATATTG TGTGTTCTGT GAATGCTAGC TCTCTNGAAT TTGGATATTG 120
 GTTATTTTT ATAGAGTGTA AACCAAGTTT TATATTCTGC AATGCGANCA GGTACCTATC 180
 TGTTTCTAAA TAAANCTGTT TACATTCAAA 210

SEQ ID NO:4860

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05784

SEQUENCE DESCRIPTION:

GATCTTTGTT TGTCTGAACA GGTATTTTA TACATGCTTT TTGTAAACCA AAAACTTTTA 60
 AATTCTTCA GGTTTCTAA CATGCTTACC ACTGGGCTAC TGTAATGNG AAAAGNATAA 120
 ANTTATTTAA TGTTTAAA 139

SEQ ID NO:4861

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05785

SEQUENCE DESCRIPTION:

GATCCTGAAA GAATAATTGG TGCCACAGAC AGCAGTGGAG AATTGATGTT TCTCATGAAA 60
 TGGAAAGNTT CAGATGNGGC AGACTTGGTG CTGGCGAAAG AGGCAAATAT GANGTGTCCT 120
 CAAATTGTAA TTGCTTTTA TGNNGNGNGN 150

SEQ ID NO:4862

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05787

SEQUENCE DESCRIPTION:

GATCGCAGAT TTNTNTAGAA ACACGGATGT NCATGTCCAG ATTCCCTTTT NCAGGTATTA 60
 AAAATAATTA AAAATAGTCC TGCCTGAGGT TGCAGTGAGC CGAGCTTGCA CTA CTGCACT 120
 CCAGCCTGGG TGACAGAGTA AGACTCCATG TCAAA 155

SEQ ID NO:4863

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05789

SEQUENCE DESCRIPTION:

GATCTGTACA ACTGATTTTA AAAAAATGCT AAAAAAGCC CCAAAGCATA TAATCTCTAC 60
 TCCTTACAGT CTCTAGAATT AAATGTACTC ATTTAGACAA CATATTAAAT GCATATTNA 120
 GCCACTTTAG AGAAACCTCA TAGGCACAGA GTTCCAAGN TTAATTTTAA GNATATCTTC 180
 ACGAACTTGA CCCTCCTACT CCACATTGCA NCATTTCCNT CAGNCAGCAT TTNAATTCCN 240
 GTATTATGTN TNTNGCAANT NN 262

SEQ ID NO:4864

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05790

SEQUENCE DESCRIPTION:

GATCAAGAAG GCCACTGGTG TGCAGGTGTN AGGCTCCTAC AGGCCCACTC TCTTCAGCAG 60
 CCACCCGGCC CTCCTCCAG CACCCGTTTT AATCCCACAG AACAACGGGA ACGTTACTGA 120
 CTCTGGTGCC TTATCTCGAA GGGACCAGAA GTGCTGCGTG TTCAGGCCAT CNNTGGCTGT 180
 NTTCTGTCT CTCCTGTCTG TCCACCTACT ACTNNNTNCT NTACTTTANC NN 232

SEQ ID NO:4865

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05792

SEQUENCE DESCRIPTION:

GATCAGAGCC GACACCAGAC GTGATTAGCA GCGCACAAN ATTCAATTG TTAAATGAAA 60
 TTGTATTTTG CCCAAA 76

SEQ ID NO:4866

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05793

SEQUENCE DESCRIPTION:

GATCTCTTGG GCCCAGGACT GTTGATGCCT TTNAGTTTTG TATTCAATAA ACTTTTTTTG 60
 TCTGTTGATA ATATTTTAAA 80

SEQ ID NO:4867

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05794

SEQUENCE DESCRIPTION:

GATCCATGCA TTATTTTCCT AGCTTCCTGC CTTGCTCCCT ATTCACITTA CACTGTGAAA 60
GGTGGGGGGT GAGTCCCACT TGAGCGCTTC CTGTTGAATA AAGCAGGCAC TTGACCTGGC 120
TGTAGCCTAG GTCTTGAGTG AACCCCAAA 149

SEQ ID NO:4868

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05795

SEQUENCE DESCRIPTION:

GATCATGTCT GTACATTGTG TAATGAATGA AAAGCACATA AATNTAATCT ACTTTGAACT 60
TTGTAAAAAT AATGTGTGGA GGCTATTCTT GTTTCTCCAT CTCAAGTCCT GTGTGTGCAC 120
GTGTGTGCAA GTGCACATGT GTGTGTGTAA TAACACATTG TAAAGANCAG AAATNACTTT 180
AAAAAATAAA CAGAAATGGA GACCTGAAA 209

SEQ ID NO:4869

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05796

SEQUENCE DESCRIPTION:

GATCCGNCCA CCTTGACCTC TCAAAGTGCT GGGATTACAG GCATGAGCCA TCACGCCCGG 60
CCACGCTGTT GGTTCTTAAT GACACAGCTT ANCTTTATTG TGAAAAGATT GCAGCAACAA 120
ATGAGATTTT ACCTGTATTT GTTAAAAATG CTTATCCTTG TCTAAGACTG GCAACATAAG 180
CAGTTCTTNG GCTTCTATGC CAATGGNCAC TAGGCAGTAA TACATGTGCA GTGCTANATA 240
GAAAATATTG GAGTNAGGGT GTACTNAGGG AAGTTCTCAA TCTTTNCCCT NTCANTNTCT 300
TCTGTAATAG TAACCTTNA TAACATGNNG ATTCTN 335

SEQ ID NO:4870

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05797

SEQUENCE DESCRIPTION:

GATCTTTCTG CAGGAAATAG TCACTCATCC CACTCCACAT AAGGGGTTTA GTAAGAGAAG 60
TCTGTCTGTC TGATGATGGA TAGGGGGCAA ATCTTTTCC CTTTCTGTT AATAGTCATC 120
ACATTTCTAT GCCAAACAGG AACAATCCAT AACTTTAGTC TTAATGTACA CATTGCATT 180
TGATAAAATT AATTTTGTG TTTCAAA 207

SEQ ID NO:4871

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05798

SEQUENCE DESCRIPTION:

GATCTGTCAC GGAAGGCGTC CTTTTTCCTT GTAGCTAACG TTAGGCCTGA GTAGCTCCCC 60
 TCCATCCTTG TAGACGCTNC AGTCCCTACT ACTGTGACGG CATTTCCATC CCTCCCCTGC 120
 CCGGGAAGGG ACCTTGCAGG GACCTCTCCC TCCAAAAAAA GAAAAAAGA AAAAGANAGA 180
 AAAANTAAAT GAGGAAACGT GTTNCAAA 208

SEQ ID NO:4872

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05799

SEQUENCE DESCRIPTION:

GATCAGACCA TAATGTTACA TTATTATCAA CAATAGTGAT TGATAGAGTG TTATCAGTCA 60
 TAACTAAATA AAGCTTGCAA CAAA 84

SEQ ID NO:4873

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05801

SEQUENCE DESCRIPTION:

GATCCTGGCC GAGGTGAGGA ACAGACAGGG GGGGTCTAGA TTCTAAGGGG GTTGGTGGAT 60
 ATTGGGCAAG GCAGGAAACC TCTGGAGACC TCATTTTCTC CATGGGGAAG ACAGCCATGC 120
 TCTTCAGGAG GAGACTCCAA GGGCAAAGNA GGGTGTCTTG GCTGTNCTTG AAGGCGAAAC 180
 CCTGCCATAT CCCCAGTGCC AGTCCCTCA GNCGTGGTG GCCTTGCATC CTGACTGGAT 240
 GTTCTCAGCC CNTTGTCTG GGCAAGAACC CAGAGCTCCC CAGTNTGGAT ACTTATTAA 300
 CCTNTTTGGA GNCNCAAATA NAAAAAANA AANNAGN 337

SEQ ID NO:4874

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05804

SEQUENCE DESCRIPTION:

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCGAGATGGA 60
 GCAGCAGAAC CAGGAATACA AAATCCTGCT GGATGTGAAG ACGCGGCTGG AGCAGGAGAT 120
 TGCCACCTAC CGCCGGCTGC TGGAGGGAGA GGATGCCCAC CTGANTCAGT ACAAGAAAGA 180
 ACCGGTGACC ACCCGTNAAG TGGGTACCAT TGTGGGAAGA GGTCCAGGAT GGNAAAGGTN 240
 AATCTTCTTC CGTGNAGCAN GGTNCAACCA GACCAACCGT TTGAGGGACT TANGTTACCN 300
 NGNGCCGGGC CAACCNAAGG AGGGNNTTN 329

SEQ ID NO:4875

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05807

SEQUENCE DESCRIPTION:

GATCACTTGC TTTTATGTCC ACTTTTNNAG TGGTACTTAA ATGTAAAGTA ACAACCTGAA 60
 TTGAGTCATT GCTTCTGAA GGAATCATTG TCCTTCTCC AGTTTTGTN CCAGAATAAA 120
 AGGAAATATT TAAAAGCCA AA 142

SEQ ID NO:4876

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05808

SEQUENCE DESCRIPTION:

GATCCTNCAG CACAGGAATT CTCAAGACCT GAGTATTTTT AATAATAGGA ATGTCCACCA 60
 TGAACCTNAT ACGTCCGTGT GTCCCAGATG CTGTCATTAG TCTATATGGT TCTCCAAGAA 120
 ACTGAATGAA TCCATTGGAG NAGCGGTGGG GNACTAGCCA GACAAAATTT NAGANTACAT 180
 AANCAACGCA TTGCCACGGN AACATACAGN GGATGCCTTT TCTGTGATTG GGTGGGATTT 240
 TTTCCCTTTT TATGTGGGAT ATAGTNGTTA CTTGTGACAN GTATAATTTT GGAATAATTN 300
 CTATTAAATA TCANCTCTGA NGNTACTNGT N 331

SEQ ID NO:4877

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05810

SEQUENCE DESCRIPTION:

GATCATGCCA TTGCACCCCA GCCTGGGCAA CAACTTAACT TTTTGAAAC TCTGTCTCAA 60
 A 61

SEQ ID NO:4878

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05813

SEQUENCE DESCRIPTION:

GATCCTCTGG ACACGTAACC TATGTCAGNC ACTACATGAT GACTCAAGGC CAATAATAAN 60
 GCCATTTCCT ACCTGCACAA A 81

SEQ ID NO:4879

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05814

SEQUENCE DESCRIPTION:

GATCCANAGA GGACCCCGN CCCAGAGAC TTGGTTTTGG CTCCAGCCTT CCCCTGGCCC 60

CGTGACACTC AGGAGTTAAT AAATGCCTTG GAGGAAAACA AA

102

SEQ ID NO:4880

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05815

SEQUENCE DESCRIPTION:

GATCAAAAGG TCTCAGATGA TGATAAAGAA AAGGGAGAGG GAGCTCTTCC AACTGGGAAA 60
TCCAAA 66

SEQ ID NO:4881

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05816

SEQUENCE DESCRIPTION:

GATCTCTAGA GTCCATTAAA AGCAAGCTAG ATTGAGAGCT CTTGGAGGGC AGGGACTGGG 60
CCTAGCTCAT GGTTTACAGC TCTTGAGGGT GACTGCACAG TGGACTCAGT CAGTCATGGC 120
TGAGTTGTGT TGGCTTNATT ATCTCTAGAA TGTAGTTCTC CATTCAAATG CAAATCAGCC 180
TGGNNGGNTC ACCTGTAGTA AAGGGGGTTT CTACCTNGNG GATGGAAANA GNNNTCTTAG 240
GNACCTTCCT TGGGCCTCCA GNACTTATTT TNGATATCCC NTTATGN 287

SEQ ID NO:4882

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05817

SEQUENCE DESCRIPTION:

GATCATACCA TTGCACTCCA GCCTGAGTGA CCTGACTGAG ACTGTCTCAA AAAGNGTAAA 60
ANATAAAAAT TAAA 74

SEQ ID NO:4883

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05818

SEQUENCE DESCRIPTION:

GATCTNACTC CAGCAGAGTC TGTNCCAATN TGGGGTGAGC AGGGCCCCTG CCATGGAGCA 60
GCAGGAATTT NAGGGATGGA GCAGGTAAA GAATGGGAAA CATAAA 106

SEQ ID NO:4884

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05819

SEQUENCE DESCRIPTION:

GATCTTAGTG GTGAAAGTAT GTGTAACCAT GTGATGGTTA AAACANGACT TACAATNCCT 60
 AAATGTGTAA CTGAGAATAA AACGTACTCT NTTAAA 96

SEQ ID NO:4885

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05820

SEQUENCE DESCRIPTION:

GATCCNAAGN CTCGGGGCAG CCGTTATCCC GTGGTTTAAT AAAGCTNCCG CGCGCTCACC 60
 AAA 63

SEQ ID NO:4886

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05821

SEQUENCE DESCRIPTION:

GATCCTGCTG TGTGTCCTGT TCCATGTTCC GGTTCATCC AAATACACTT TCTGGAACAA 60
 A 61

SEQ ID NO:4887

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05823

SEQUENCE DESCRIPTION:

GATCTCCTTG TCAGGAGCAC CTAAGAACTG GCATGACTCT ACACCCNTNC TCCTTCTNCA 60
 ATGACCTCGT GTCAAGATGG CAGACCTGCA GAGATGAATT TGCCTNGATA CCTGAGTCAC 120
 CAGNGNGGAG GAAACTCCCA TTNGACATGC ATCACACTCC ACATATGAAA CCCTNCTTTT 180
 GCTGCACTGT CACTGGGGGN TAGGGGTTAT TACTCACTGC AACTTAGCCT AGCATTAAAGT 240
 TGNTTTGACT NATNCANGTT TCAGTAAANG TCGN 274

SEQ ID NO:4888

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05824

SEQUENCE DESCRIPTION:

GATCTGTGTT GGTTCCTTAG ATTGCTAGCT TTTCCTCCAG GGGACCACAG CAGGTGAAGC 60
 TCAAGAGCGC ATGGCTCTGC TAATAGTAAA TTGTTTTCAG GGCCTTGTCC AGCTGAGAGC 120
 TTCATGTCCA CCAGATTCTG AGAGGTGTCA GCAGCACTTT TTTTNNATT TGTNGTTNGG 180
 TTTCNCCCG GTTATCGGAC CATGGGCTNA GCTCAGGCAC TTGCTGTAGG AGACTNGNNA 240

TTNCTGTAAA GGANNGGTNA TTTANCCN

268

SEQ ID NO:4889

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05825

SEQUENCE DESCRIPTION:

GATCAAACCT GGTCTGGGTA TTGATGAAGA TGACCCTACT GCTGATGATA CCAGTGCTGC 60
 TGTAAGTAA GAAATGCCAC CCCTTGAAGG AGATGACGAC ACATCAGCA TGGAAGAAGT 120
 AGACTAATCT CTGGCTGAGG GATGACTTAC CTGTTCAGTA CTCTACAATT CCTCTGATAA 180
 TATATTTTCA AGGNTGTTTT TCTTTATTTT TGTNAATATT AAAAAGTCTG TATGGCATGA 240
 CAACTACTTT AAGGGGAAGA TAAGATTTTC TGTCTACTAA AGTGATGCTG TGGTACCTTA 300
 GGCACTNAAG CAGNGCTAGT ATN 323

SEQ ID NO:4890

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05826

SEQUENCE DESCRIPTION:

GATCTAAGAG TATGGCTAAA CATCTATATA TGCAATCTAT TAAAAGAACT TAATTCGGCT 60
 ATTAAA 66

SEQ ID NO:4891

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05827

SEQUENCE DESCRIPTION:

GATCTCTGGA GCTCAAGAGG TTGAGGCTGC AGTGAGCCGA TGTGCCAGTA CACTGCAGCN 60
 TNGGTGACAG AGCAAGACCC TGTCTCAA 89

SEQ ID NO:4892

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05829

SEQUENCE DESCRIPTION:

GATCGCCACT TACCGCAAGC TGCTGGAGGG CGAGGAATGC AGACTCAGTG GAGAAGGAGT 60
 TGGACCAATC AACATCTCTN TTGTCACAAG CAGTGTTCCT TCTGGATATG GCAGTGGCAG 120
 TGGCTATGGC GGTGGCCTCG GTGGAGGTCT TGGCGNCGGC CTCGGTGGAG GNCTTGCCGG 180
 AGGTAGCAGT GGAAGCTACT ACTCCAGCAG CAGTGGGGGT NTCGGCCTAG TNNNNNGGGC 240
 TCAGTGTGGG GTGCTCTTGG CTTCACTGCA AGCAGTAGCC NGAGGGCTGG GGGTGGNCTT 300
 NTGGCANTGG CGGNTNTAGC AGNTCCAGCG TCAAATTTN CTCN 344

SEQ ID NO:4893

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05830

SEQUENCE DESCRIPTION:

GATCAGGNAG CCTCCTGATG CCAGAACACC TNAGGCAGAG CCCTACTCAG CTGTACCTGT 60
 CTGCCTGGAC TGTCCCCTGT CCCCGCATCT CCCCTGGGAC CANCTGGAGG GCCACATGCA 120
 CACACAGCCT AGCTGCCCCC AGGGAGCTCT GCTGCCCTTG NTGGCCCTGC CCTTCCCACA 180
 GGTGAGCAGG GCTCCTGTCC ACCAGNACAC TNAGTTCTNT TCCCTGCAGT GTTTTCATT 240
 TATNGGGGNC AAACATTTTG CCTGTTTCT GGTTCAAAC ATGATAGTTG ATATGAGACT 300
 GAAANCCCTG GGTGTGGAG GGGAAATTGG GNTNAGAGGG GN 342

SEQ ID NO:4894

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05831

SEQUENCE DESCRIPTION:

GATCCTGGAC TTNCCCTCA GCAAAGATGC CTCNTGGTG GTGACCACGT CAGGAGACCA 60
 CAAAGCGAAA NTNTTNTTT TCCAAAGGCC TGACCGTTAA TGGCTGCAGC CCCTGCCTGT 120
 TTGNTGGTG TTGAGGGN 138

SEQ ID NO:4895

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05832

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GTGGGAGCCA CAACACCCGG 60
 CCATGAATTA ACTCCGTAA AAAATAAAG TATACATTCT GTGAGCAAA 109

SEQ ID NO:4896

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05833

SEQUENCE DESCRIPTION:

GATCGGTTTC GCCATCATGA CGCAGTGTCT CCCAGTGGCC CTGTTCTCCC TGGTGGGCTT 60
 CACCCAGATG ACCATNTGGG CCAAGGGCAA GCACCGCAGC TACCTGAAGG AGTCCGGGA 120
 CTACCCGCCC CTGCGCATGC CCATNATNCC CTTCTGCTC TGAGCGCTCA CCCCTGCTGA 180
 GGCTCAGCCC CTNAACCCGG TGGCATTCTG GGGGAGGAGT GGGGCCACCA GNTCTCCAGC 240
 ACCCGGAATA AAGCCCGNCT GCCCAGTCG GAAA 274

DEMANDES OU BREVETS VOLUMINEUX

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SEQ ID NO:4897

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05834

SEQUENCE DESCRIPTION:

GATCTTGCTG GATGTGAAGA CGCGGCTGGA GCAGGAGATT GCCACCTACC GCCGCCTGCT 60
GGAGGGCGAG GATGCCCACC TTTCCTCCCA GCAAGCATCT GGCCAATCCT ATTCTTCCCG 120
CGAGGTCTTC ACCTCCTCCT CGTCCTCTTC GAGCCGTCAG ACCCGGCCCA TCCTCAAGGA 180
GCAGAGCTCA TCCAGCTTNA GCCAGGGCCA GAGCTCCTAG AACTGAGCTG CCTTACCAN 240
AGCCTNCTGC CCACCAGCTG GCCTCACCTC CTGAAGGNCC GGGTCAGGAC CCTGCTCTNC 300
TGGNGNAGTT TCCCAGGTAT NTTNNTGGT TCCTGTTGGT GAN 343

SEQ ID NO:4898

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05835

SEQUENCE DESCRIPTION:

GATCAGNAGC CCCCAACACA GGCAAGTCCA CCCATAATA ACCCTGCCAG TGCCAGGGTG 60
GGCTGGGGAC TCTGGCACAG TGATGCCGGG CGCCAGGACA GCAGCACTCC CGCTGCACAC 120
AGACGGCCTA GGGGTGGCGC TCAGACCCCA CCNTACGCTC ATCTCTGGAN GGGGCAGCCC 180
TGAGTGGTCA CTGGTCAGGG CAGTGGCCAA GCCTGCTGTG TCCTTCCTNC ACAAGGTCCC 240
CCCACCGTTC AGTGTACGGG GGTGACGTGT GTTCTTTTGA GTCCTTGAT GANTAAAAGN 300
CTGGAACCTN ANAAAAAGTG NGNNGNGGTN TNTGNTAN 338

SEQ ID NO:4899

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05836

SEQUENCE DESCRIPTION:

GATCAGCCCC TGACTTNTT AAAAGATATC AGAAGTGTCT TGGAGCCAAC TAGAGGCAGG 60
GTCATCCTTG CCCTTNTCCT CCCCTTTCAT CCCTATGTGG AAAACGTAGG TGGCAAGTGG 120
GAGAAACCAT CAGAAATTTT GGAAATCAAA GGACAGAACT GGGAAGANCA AGTGAATAGT 180
CTGCCTGANG TTTTCAGAAA ANCTGGTTTT NTTATCGAAG CTTTCACCAG ACTACCATAC 240
CTGTNTGAAG GCGACATGTN TAANGNCTAC TNCGTTCTGG NTGACGCTNT CTTTGTCCTC 300
AANCCAGTAT AAACACGTGG NGGTCGAAGT CTTCAGAGTC CGTACCNTNC TGGATN 356

SEQ ID NO:4900

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05837

SEQUENCE DESCRIPTION:

GATCCCCAG AAAAGAAAGC TACAGAAGAA ACTGGGGCTC CTCCAGGGTG GCAGCAACAA 60
TAAATAGACA CGCACGGCAG CCACAGCTTG GGTGTGTGTT CATCCTTGAA A 111

SEQ ID NO:4901

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05838

SEQUENCE DESCRIPTION:

GATCTTAATG GGTTCGATGG TAGGGAATAC GGAAAGGATA CACTGCTAAT ATTGTGTCTA 60
ACAATAAAGC AAACAACCTCG ATGCTGTAAG AAGACAAGCT GTTTGAGCTT TCAAACACAC 120
AGGGGCACAG CACAATTCAG AAATACCCAG GAGGATTCCT GCAGGCTTAA CAGTTGGCAT 180
CGTACTGAAA TGAAACGTGT ATTAACANGA AANTGTCAAA CTTTGGGGA AACAAATTTT 240
CTGTTACTTC CCACCCNACT AAAAGGGAAG ATAAACCAT CATCACCAGN NNN 293

SEQ ID NO:4902

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05839

SEQUENCE DESCRIPTION:

GATCTACATA AGGAAAGGAA GAATATTAAA GAAGAAATAA ATGAAGACGA GATAAAATCT 60
TTTTTCTTAA TTATCAAATA AAAGTTTGTT AAAAGTAAA 99

SEQ ID NO:4903

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05840

SEQUENCE DESCRIPTION:

GATCAGGCAG TTCCTGGACT GTTCCACCAC TCAGAGTGAC CTGTCCCTGT GTGAGGGCTT 60
CAGCGAGGCC CTGAAGCAGT GCAAGTACTA CCATGGTCTG AGCTCCCTGC CCTGAAGAGG 120
TCGGTGCAGA CTCGGGGGCC AGTCCTGCAC NCACNTCTAC CCCTCGCCGA CAGCCAGACC 180
ACAACACCAG ATTGTACCCA GATAGCTGGG ATTGGAAGTN AGGAGGTTTC TCACCCACCA 240
GATAACCCAA GACACAAATG TGCAATTAAG AGTTTATTTT AGACCACAAA 290

SEQ ID NO:4904

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05841

SEQUENCE DESCRIPTION:

GATCTGCCCG CCTTGGCCTC CCAAAGTGCT GNGATTNCAG GCATGAGGCG CTGCATCAGT 60
TCTGCAAA 68

SEQ ID NO:4905

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05842

SEQUENCE DESCRIPTION:

GATCTGCAAG CNGGAGCCCT CCTACCCGCA GCTTNAGCAC AGNATCATCC AGCCCTGGGG 60
AGGCGCACCC TTAAGCAATA CAGACTGGGC TGAGGCTGAC AGGCAGAAGA CTAACAGAGC 120
GCANTCTGCA CACGCAGGTT CTGGGGCGAC CTCTGGCCCT GGNCATCTCT GNACTAACTN 180
ATCTGAATTA TGGAAGGTGG CAGTNTTGGT CANTAGTTT NNN 223

SEQ ID NO:4906

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05843

SEQUENCE DESCRIPTION:

GATCCGTCCG CTTGGGCCTC CCAAAGTGCT GGGATTACAG TCGTGAGCAC CGCGCCCGGN 60
CTGNGGTCAA TTTTCTATGT CAAGTGAGTG ACATTATTTT TACAAGTATT TTCTTCTTTT 120
TAAAATTATA CCAGCAAATA CAGTTAATGC AGAAACCTAA GTAATTTGAG TGAGCTATT 180
CACAATCTAT GTGAAGNNNN CAAAATAGAA TGACCAGTTT TATTATAAAT TAAGGGGCTT 240
AATTTTCTAA AAAAGNANAN AANTGAGCCN TATCTCTGTG TTTTATAATT ATN 293

SEQ ID NO:4907

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05844

SEQUENCE DESCRIPTION:

GATCACTGA GGCCAAGTAT TAAAACCAG CCTGGGAAAT ACAGTGAGAC CTTNTNTCTA 60
CCAAA 65

SEQ ID NO:4908

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05845

SEQUENCE DESCRIPTION:

GATCCTGAAG GCCTTCGAGT ATTTTACTAT TTGGTACAAG ACTTGAAATG TTTNGTNTTC 60
AGTCTTATTG GATTACACTT CAAGATTAAN CCAATTAAA TTGTATGTNT TCAGGCTGTT 120
TGTATATTTN ATTAAGGGAT GGGAGGGGTT ATTTGTCATT TACAGTATTG GGGTTTTNAT 180
GAATGTGAAG CAAACAANAN ANATTGTNT GTAAACTGTT TTNTN 225

SEQ ID NO:4909

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05846

SEQUENCE DESCRIPTION:

GATCAGGTTG GGGGGCAGCC CCCAGTCCCT TTCTGTCCCA GCTCAGTTT CAAAAGACA 60
CTGACATGTA ATTCTTCTCT ATTGTAAGGT TTCCATTTAG TTTGCTTCG ATGATTAAAT 120
CTAAGTCATT TGAAA 135

SEQ ID NO:4910

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05847

SEQUENCE DESCRIPTION:

GATCCAGTAT TTGATGAAAC TCATGAAAGT GGGTGGAGCC CATCTNGCCC CTCCTCTTTT 60
CTAGGACGCA CTATATGTGA CTGTGACTTT CAAGGACATT TGTGTGCCAT TTGCTGATTT 120
TTTTGGGAAG TNAATTNCTA ACTNCTTTCA CTGATAAATG NAGAAAAGTA TTGCACCNGT 180
GAAATGCACC AAATGAATNG NGTTTTGTAA TTAATAAAN NTNTN 225

SEQ ID NO:4911

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05848

SEQUENCE DESCRIPTION:

GATCCCCTAA GGTCTGGCC CAGGNCTGCC CAAAGAGAAG CCCAGGATGG TCGGCTGCCT 60
GGGGGCATTG TCACCACGTN GCCATGACGG CTGGTCCNA CAGNCCAGC TGGGAGGACT 120
GGTTGTGCTG CTGGAGAAGG GCTGGAGAAG GCAATGGCAT GCTGCCGCTT TGCCAGTCCC 180
TAGAAGTCGC GGTGCAGGTG ATGTGTNGNG AGCCGTNCCT NCANTGGGCA GGCCNNGGAG 240
TNTACTTGTG TGCAGCTGAC CCAAGGGCAG CCACATNTNN N 281

SEQ ID NO:4912

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05849

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCCTG GAAAGGATGG ANTTTACATC ATTTGGGCAA 120
GGCCTATTTT CAAGGTTTNT TTGGTNTGNT TGGNTNGCTT GTTTTTGGNT TNTGGCAGN 179

SEQ ID NO:4913

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05850

SEQUENCE DESCRIPTION:

GATCGAGGGC TGGGNACCCC GGTGTNAGCA GGATGGGGCC CTGCCCTCCC GTGGNAGTTG 60
 TGGACTCGAG CCCAGGGGCT GCGGTAACA GCGGTGTCCC AGGTCCCTGC CATCCNATT 120
 TACCTGGAAT GTCTTCTCTG GAGTTTGAA TTGCTTGAGG AACCTGCGT GTGCTTGAG 180
 AGGCCAGAGG GCTTGCTGAG AACCCCATGG ACAGTGGAGA GCGGGATTCTG AACCAAGGGC 240
 TGGACTCCA CACCTNTGGC CTGCGTCGCC CAGTTCTTTG TGGCTCTGAA GAATTGGNCG 300
 CTGTGAAAA GTN 313

SEQ ID NO:4914

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05851

SEQUENCE DESCRIPTION:

GATCTTATGT GTTACAAAAT TGGAGAAAGT ATTTAATAAA ACCTGTAAAT TTTTATACTG 60
 ACAATAAAAA TGTTTCTACA GATATTAATG TTAACAAGAC AAAATAAATG TCACGCAACT 120
 TAAA 124

SEQ ID NO:4915

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05852

SEQUENCE DESCRIPTION:

GATCCCTGA ATGCCTTTGG AGGCCAGTAG AGCACACAGG GTATCCACAT GTTACCCTGC 60
 AGCTACATTG TTGAGTTAGT GATGATATTG TATATGCTCA TGGTCTNAAC TGGATTACAA 120
 AAAGCAAATA CTAGAACAGC TAGCTCATCT TTNACCCAAT GTACTTAGTA TTTTCNTGCA 180
 CTGGTTTAAT CATGNTTAAT ACTACAAANC AAAANTAANT ATTTACAGT GGTGGGNTTG 240
 TTTTGTTTT AANCCACAGT TNGANTTAGT TAGCCTTGCT GGGGCCATAA TATGCTTCAG 300
 GGTGTGTAAN TGN 313

SEQ ID NO:4916

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05854

SEQUENCE DESCRIPTION:

GATCTGGGGA CTACCAGAGA CTCTGGGAAA TGGACAAGGT GGGGGGCCCC ACTCTTTCTC 60
 TCCTGCAGTC CCGTAGCTGG GGCCTCCTC CTCTCAGGG TCTCCCAGC CCAGTCCCCT 120
 TGCTCCCATC CCACTCGGTG CTGTTGGGTA GGGGCCCTGC CAGGAAGTGA CCAGCTNAGC 180
 GAGGAGCCAT AATGTGCATA TGTGCACAAG CAGGGTTTGG GGAGGGGGNT GTGAGGGGNT 240
 GTGCCCAGGT GTTGCCCCCT ATCTCCTGGG GAGGGTGAGG NAGGGCAGGG ACAGTNTCCA 300
 GGGGTNAATT TN 312

SEQ ID NO:4917

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05856

SEQUENCE DESCRIPTION:

GATCTAAATA TTCTGGTTTG GATTAGGCAA TTAAAATTTT TTTGGCAACA GGAAA 55

SEQ ID NO:4918

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05857

SEQUENCE DESCRIPTION:

GATCCAAGGA NCGTTTGGNT TTTCCTAGCT ACATCTGGTA CCTTGGCTGG CATTATGGGA 60
 ATNAGGTTCT ACCACTCTGG AAAATTCATG CCTGCAGGTT TAATTGCAGG TGCCAGTTTG 120
 CTGATGGTCG CCAAAGTTGG AGTTAGTATG TTCAACAGAC CCCATTAGCA GAAGTCATGT 180
 TCCAGCTTAG ACTGATGAAG AATTAATAAT CTGCATCTTC CACTATTTTC AATATATTAN 240
 GAGAAATAAG TGCAGCATTT TTNCATCTGN CATTTTACCT AAAAANAAG ACACCAAANC 300
 TTGGCAGAGA GGTGGGAAAA TCAGTCATGT TTTACCAANC CTANCNGAGG TTGGCGTGT 360
 TTGTTACCTN 370

SEQ ID NO:4919

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05858

SEQUENCE DESCRIPTION:

GATCTTGAAA GGAAGTATGC TGTTCTCTAT CAGCCTCTAT TTGATAAGCG ATTTGAAATT 60
 ATTAATGCAA TTTATGAACC TACGGAAGAA GAATGTGAAT GGAAACCAGA TGAAGAAGAT 120
 GAGATTCGG AGGAATTGAA AGAAAAGGCC AAGATTGAAG ATGAGAAA 168

SEQ ID NO:4920

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05859

SEQUENCE DESCRIPTION:

GATCATGGGA GGGAGCTGAG GGGTTAATAT ATATACATAC ATACACATAT ATATATTTNN 60
 GTAAATAAAC AGGAACTGAT TTNCTGCCTC CATCCCACCC ATGAGGGCTG CAGGNACTAC 120
 AAGAGAAA 128

SEQ ID NO:4921

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05860

SEQUENCE DESCRIPTION:

GATCGGGTCC CCAGAGCCAC CATCTCCTGA GCCTCCCACC CCGCTGCCTG GGCCCTGTGG 60
TTGCTGGGCC TCCCACCTCA AGGAGGGGAA GGTGTACAG CCCGAACCCG TGGAGCAATG 120
CCCTGTNTGG NCTCCAAAAC CAAAATAAAA CTGGTGTAC TTTAAA 166

SEQ ID NO:4922

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05862

SEQUENCE DESCRIPTION:

GATCTTTAAA CTGCTTTATA CACTGTCACG TGGCTTCATC AGNTGTGTGC ATTCAGGAT 60
GGTTTTTAAA GNAACCTCAG AAAGNTATTT CCTTAAA 97

SEQ ID NO:4923

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05863

SEQUENCE DESCRIPTION:

GATCACAGAA AAATTAATAA TCCAAGTGCT CTCTAGATTT GTTGATAAAC ATTTTATGCT 60
TGCAATTAAT CTTGAAATGT ATGAGCAGAA TGAGACAATC AGTTAAATCA GAAATGAGAA 120
GTATTATAAT GTAAAGGCCT TGTGTTGCTG TAGCAATANN ATGACCAAGT GCAATGACTT 180
GATTTAATAA AATCATATNT TAAAGTTAA A 211

SEQ ID NO:4924

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05864

SEQUENCE DESCRIPTION:

GATCAACGCC TCACTGAAAC ATGGCTGTGT TTGCAGCCTG CTCTAGTGGG ACAGCCCAGA 60
GCCTGGCTGC CCATCATNTG GCCCCACCCA ATCAAGGGAA GAAGGAGGAA TGCTGGACTG 120
GAGGCCCTG GAGCCAGATG GCAAGAGGT GACAGCTTGC TTTCTGTGT GTACTCTGTC 180
CAGTTCCTTT AGAAAAATG GATGCCCAGA GGAATCCCAA CCCTTGGCTT GGGGTCAANG 240
AAACAGCCAG CAAGGNGTTA GGGGNCCTAG GGAATTTGGG CTGTTTGTG CCCATTGAA 300
NGGCGGNCCT NTGGGCCCTG GGCCCTTNA GTTTGGTN 338

SEQ ID NO:4925

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05865

SEQUENCE DESCRIPTION:

GATCCTGTCT TCTTTCATGT TTACTACGAG GCATGACATT CATGGCAAAA CAGGGATGCC 60
 GTTCCAAGA GCAGCTATAA AACAATCTGT TTTCTAAAG ACAGCCACTC TGAGAAGGNG 120
 ATGANGGAAC ACGGCAGGGT TCATCANTTC ATAGACTGTT TCCAAAAATA ATTTTAAAC 180
 TTTTCCACTA GGCATCTGTG TCTTTAACCA CTGCACANTG GCNTTGCCTG TTTAATANAA 240
 GGTNNTCANN ACGTGAAAA 259

SEQ ID NO:4926

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05866

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAAAGTTTT GGGATTACAG GCACGAGCCA CAGTGCCAGC 60
 TGAAAACGTT TCCTAAACAG AAGTGCGCAG AGCATGATGG AGCCAGCCT GGGCTTGACA 120
 TTTGGAGAGA ACTACAGAGA AGTATCCAGA CTGTTGTAC TAATAATAA ATACATAAGC 180
 TCCGCTGNAC GAAA 195

SEQ ID NO:4927

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05867

SEQUENCE DESCRIPTION:

GATCCAACAA TAAATATTA ATTTATAAAA AAGAAATTTT AAAAGTAAC AAGAAA 56

SEQ ID NO:4928

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05868

SEQUENCE DESCRIPTION:

GATCATCCTC CAAGCAGTCC TGTTCATTCA TGTCTGCCTC AAATTGCTGG TGAATACATA 60
 AAATAGTTAC TTGCTAATCA AA 82

SEQ ID NO:4929

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05869

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCAAAAGCCA ACACACCCGG 60
 CCTGGATATG AATTATAAT ACCCTACAGT GCAGCACAAG AAGATGCACT CAAAGCACTG 120
 ATGTGAGGAA GTACTTGCCC CGTAGCAGCT ATTCACTCTA CCAGTGTAAG CAAACTCTAA 180
 GGCTAGGGCG GGCAGCACA GGCACANGNN TATACTAGCC AGGGGTTTAA TATAANTACA 240

ACCAGCATAG NAAGNCCCAA ANCTNTACAG NNNCCAANAC CNGGNN

286

SEQ ID NO:4930

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05870

SEQUENCE DESCRIPTION:

GATCTGTGCC CCATGCCTGT CCAGCCTGGG CAGCCAGGCT GCCAAGGCCA GAGTGGCCTG 60
GCCAGGGGCT CTTCAGGCCT CCCTCTCTCT TCTGCTCCAC CCTTGGCCTG TTTCATCCCC 120
AGGGGTCCCC GCCACCCCGG GCTCTCTGCT GTACATATT GAGACTAGTT TTTATTCCTT 180
GTGAAGATGA TATACTATTN TGNTNAAGCG TGTCTGTANT TANTGTGTGA GGANCTGCTG 240
GGNTTCANTT CGNGTGNACG GTGGGAGAGN TTGGGTGCCC GNGAGAATNG ACGGGCTNAT 300
GGNTTCCTTT N 311

SEQ ID NO:4931

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05871

SEQUENCE DESCRIPTION:

GATCAAAAAA CTACCTATCT GGTACTATGC TTTNATCTG GATGATGAAA TAATCTGTAC 60
AACAAACCCT GGTGACATGC AATTTACCTA TATAGCAAGC CTACACATGT GCCCCTGAAC 120
CTAAAAAAGA AGTTAAAAGA AAAACGTTTG GNTTATTTTC CCTCTTTNGA ACAANGNCAT 180
TGGTTTGCCC AAGGNCTACA AATAANCCAA CGGGAAAAAN GANAGGTTCC AGTTTGTGNT 240
GANAATTCTG ATTAAGCCTC TGGGCCCTAC AGCCTGGGGA ACCTGGNGAN TCCTACACCC 300
GGGAN 305

SEQ ID NO:4932

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05872

SEQUENCE DESCRIPTION:

GATCCAGAGA CACACAAGAG CACCAAAGCA GCTCATCCCA CTGATGACAC CACGACGCTC 60
TCTGAGAGAC CATCCCCAAG CACAGACGTC CAGACAGACC CCCAGACCCT CAAGCCATCT 120
GGTTTTCATG AGGATGACCC CTTCTTNTAT GATGANCACA CCCTNCGNAA ACGGGGTCTG 180
TTGGTCGNAG NTGTGCTNTT CATCACAGGG ATNATNATTN CTNACCAGTT GGN 233

SEQ ID NO:4933

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05874

SEQUENCE DESCRIPTION:

GATCTACTAA AACACTAAGT TTCATACTAA ACCGTTTCAT GTATCTTTAT CATATTCTGT 60
 AAAGTTTACA CTTTGATGTA CCTGTATTTT ATTGAAATAC TGTCCAGCTT CAAATGGAAC 120
 AATATTGTAT GTAGAAATTC CAATTACTGG TTTGTCAGTN GGATTCTTAG CTCTGTAAAA 180
 CGCCAGTGCA GTCTCTCCTG GCACCACCTG TTTTAAAGAG TATATATATN ATCAGTNCTT 240
 TGNNTCTCAC AAAGNGCCTC NNTTCCCTG CTAAGN 276

SEQ ID NO:4934

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05875

SEQUENCE DESCRIPTION:

GATCTGGTGG GCTGGGTCCC CCTCTCGACC NCAGACGCCC CTAAGTCGCC CCTTCTCATT 60
 TTATACAATA AACATTCTCC ACCTACAAA 89

SEQ ID NO:4935

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05876

SEQUENCE DESCRIPTION:

GATCAGGAGT TCTAGGCTGT AGTGTGCTAT GAGCACATCT ATGAATAGGC ACTGCGTTCC 60
 AGCCTGGGCA ACATAGTGAG GCCCATCTC TTTAAAGGGC ACACGTGTAT AGGACAGCTC 120
 CATTATAATC TTATGGGACC ACTGTAATAT GTGTAATCCA TTGTTGACTG GAACATCCTT 180
 ATGCAGCACA TGAAGTGTA CATAACTTAA AATTATCAT TTAACCATTT TTAAGTGTA 240
 CAATTCGGTG GTATAAAGTA CATTTACATT ATTGTGTAAC TATCACCTCT ATCCATCTCC 300
 CTAACTTTTT CNN 313

SEQ ID NO:4936

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05877

SEQUENCE DESCRIPTION:

GATCCGGGTT CAGAGTGACG TTTTCTCTCA CAAGCAGAAG GTAACAAATT TCATGCTCTC 60
 CCTAAATTCT GTCTGATTTT GCCTNGTGGT GATAGATTGT CANGAACACA ATGTCCTCTG 120
 GAGAAATCTA TTGACAGAAA TTGGTGCACT GTTANCAACG CTAATGTAAA ACACAGANTT 180
 TACAGAAAAA TAGAGAAAAA AAACACATTT GTNNGCCTCA GAAA 224

SEQ ID NO:4937

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05879

SEQUENCE DESCRIPTION:

GATCCTCTCT CCCAGGGAAT CCGACACAGG AGGAACCCCT TCTNTGGTTG ANCTGGGCCA 60
 GGCCTAAGAG TAGCAGGAAC TCTAAGACCA CAGAGTTTTT TATAAATGTA TAAATGTATC 120
 AAGCCAAATN TGCAGATGCT AACTGGACAT TCTGGGGAAC TGGGCACCAG GNGTGCCTTC 180
 ATACACTGTA CCCAGCTCT NTTCTAAAAG AGAAGTNGGT GGGCACACTT GAACTGTTTG 240
 GTGGNCCNAA CCACAGGANG CTGCAATTNT NTGGNTTAGG GTGATACTTT TGGCCCTNCN 300
 TGTGGCCCT NTN 314

SEQ ID NO:4938

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05880

SEQUENCE DESCRIPTION:

GATCTGAAAG TATAAACTG CTAGAAGAAA ACATGGATAT TTGATTGGAC AATGATATTT 60
 GGATATGACA CCAAAAGCCT AGGCAACTAA TGCAAAAATA GACAGGGAGA GTACATCAAT 120
 CTTAAAAACC TTATGATGGC AAA 143

SEQ ID NO:4939

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05882

SEQUENCE DESCRIPTION:

GATCTGAAAT ACCATCTCTA CCAGAGACTC TGGGAAAAAT AATGGATTCC AAGTGTTAAA 60
 CGGAATTAAG TTTGGCCTAA AACTGCCTCT GTACATAGTG ACTTATAACC TCACTTAATG 120
 TATAAGCAA CTGGGACCTG ACTTGAGAGT ACACTTCTGT AACAAGCAGC AGAGTCTCAC 180
 CAATCACATG CTGAAGGCTC CAAAACATG NCTATGTGAG GTGGAGGCTG ACCTGCAGTC 240
 AGTCTGGCCA TGTACATNG TCTTCCCTT NCTGTGGCTA TAAATAAATA CAGCCTGNAC 300
 ACANCGGACA GGNGGACCGT TCTGNACCAN GNTTGGGTCC TGNGNGTAC CNAGGTNGAN 360
 GNAACTTTTT TTNGCTCAN TTAACTGN 389

SEQ ID NO:4940

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05885

SEQUENCE DESCRIPTION:

GATCTCTCCG CCTAGTTAA GAGCATGTGT CGGGAAATTC CTCAGAGTGC TCAGAGTCCC 60
 TGTATNTTA TACCTTTTAA CAATGTAAAC TGTTCAAGAC TGNTTTTGT AACAAACCT 120
 NNTGTTTTAA A 131

SEQ ID NO:4941

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05886

SEQUENCE DESCRIPTION:

GATCATGGCG CAGTTGGNCA GGAGATGTTC TGCCCCATCT GCTGTAGCGA ATATGTGAAG 60
TGGGAGGTGG CAACNGAGCT GCCNTTCCAC CACTATTNCC ACAAGCCGTG TGTNN 115

SEQ ID NO:4942

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05887

SEQUENCE DESCRIPTION:

GATCCTCCCG CCTTNGTCTG CCAAAGCACT NGGGTTACAG ATGTGAGCCA CTNACCCAG 60
CCTAATCTTN ATAAATCTCC ATCCCCATTA CTCTGGTTCA CCCNN 105

SEQ ID NO:4943

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05888

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTNCGN CAACATGCTG GGC GTGTCGC TCTTCTNGCT 60
TGTTNGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGANT GAAAGTGGCG 120
CTTTCTCCGC CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGAGGGGCC 180
TTCACACTNC ACTTCATCCC TTCTACCCAT CACAACATAC AAAGCAACTA CACCTGGGAT 240
TTTNC AAGC AGCTTTNATT TCCTCAGNGT CTTCTTAAT CCTATGGGNA CANGGAAGCT 300
GCCACTNGNN TAGGGNCCAG TATAGGGGGC TTNGCTTTTT TAACTGCNTN 350

SEQ ID NO:4944

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05889

SEQUENCE DESCRIPTION:

GATCCAGCGG CAGTGACAGA ATCCAAAGAG GGAACAGAGG CATCAGCATC GAAGGGGCTG 60
GAGAAGAAAG AGAAATGATG CAGCTGGTGC CCGAGCCTCT CAGGGCCAGA CCAGACAGAT 120
GGGGGCTGGG CCCACACAGG CGTGCAACCG GTAGAGNGCA CAGGTAGGCC AAGGGGNAGC 180
TCCCAGGACA GGGCAAGGGG GCAGCANGGA TACCTGCNAG CCAGGGNCTC TNTGGCCTNT 240
NTTTCCTAN TCCNTTTTTT TGGCCCTTCT TTTTNTNTG CCGTACANCN TGCAGGCAAA 300
AGNN 304

SEQ ID NO:4945

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05890

SEQUENCE DESCRIPTION:

GATCAAAACA AAACAAAAA GTTGTCTCTG AAAAAAAAC AAAACAAAA AGTTGTCTCT 60
GAAA 64

SEQ ID NO:4946

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05892

SEQUENCE DESCRIPTION:

GATCAACCTT TGTNTGCGAG GGTCTAAGTA GGGTCGAACA CAGAAGTGGG AAGNAGAGGG 60
GTGGGCCAGG GGCTAATGGT GTCACGTGTG AAAGTTTTTG ACATACTAGC TCTATAAATA 120
TATGAATATG GACAAA 136

SEQ ID NO:4947

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05893

SEQUENCE DESCRIPTION:

GATCCTCTGC TACCAAACAA TGATGTGGAT TCTTTGCAC AGAAATATTT AAGGTGGGAT 60
GGTAAAAAAT GTCACAAAAG ACTCCTCACC AATACTTNAT GTTGATATCA CTTAATATTA 120
ACCAGACTTT GCTGTATTGC AATAAACAG AGAACTGTTA AA 162

SEQ ID NO:4948

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05894

SEQUENCE DESCRIPTION:

GATCATCGCC TCCCTGGTTT ATAGTAGACA GACCTTTTCT GTTTTTCATC CGACATAATC 60
CTACAGGTGC TGTGTATTTC ATGGGGCAGA TAAACAAACC CTGAAGAGTA TACAAAAGAA 120
ACCATGCAAA GCAACGACTA CTTTGCTACG AAGAAAGACT CCTTCCTGC ATCTTTCATA 180
GTTCTGTAA ATATTTTGT ACATCGCTTC TTTTCAAAA CTAGTTCTTA GGAACAGACT 240
CGATGCAAGT GTTCTGTTC TGGGAGGTAT TNGAGGGAAA AANCAAGCAG GATGGCTGGA 300
ACACTGTACT GAGGAATGAA TAGAAAGGCT TCCAGATGTC TAAAAAGATT CTTTAAACT 360
ACTGNAACTG TTACCTAGGT TAACCANCCC TGTTGAGGT ATTN 405

SEQ ID NO:4949

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05895

SEQUENCE DESCRIPTION:

GATCTGCTCG GAATCCTCCT GCTAAAGAAG GNTCTGGGCG TGAGCTCAGC CGCCCCGCAC 60

CCCAAATCCA GTACAGGAGG CTGCTGGTAC AAATACTGCA GTAATGACAC CAATAATGGG 120
 GCAGACACAA CAGCGTGGCT TAGATTGTGC CCACCNAGGG AAGGTGCTGA ATGGGACCCT 180
 GTTGATGGCC CCATCTGGAT GTAAATCCTG AGCTCAAATC TCTGTTACTC CATTACTGTG 240
 ATTTCTGGCT GGGTCACCAG AAATATCGNT GATNCAGACA CAGATTATTG TTCCTGCTGT 300
 ATTTGCTGGT TTNCCTGGTT GAATTGGTTN 330

SEQ ID NO:4950

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05896

SEQUENCE DESCRIPTION:

GATCCAGAAT TTATTAGTTT AAAATGCAGG TGAACTTTTT TTTGCGTTTG GTTACTTGT 60
 CTGTCAAATG TTTCTTAAA CATGAACTG AATAAGGAGA AGAGTATTTT TAACACTTAA 120
 ATTTCTTGGC AAATTTTAAA ACATTTTNA GTCTGTAATA CACTCCACTT GANGCACTTA 180
 AGTNTTCCTT AAATGACTTT CCTTAGGTAA TGATACTGGT GTGTTTTCCN AAGGCCCTTT 240
 TAAAAAAGTN TNNNTAANTG ACTATCTGTT GAAANGGTGT CCTGTNCCTT NCTNCTAGNA 300
 ATNTGGGN 308

SEQ ID NO:4951

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05897

SEQUENCE DESCRIPTION:

GATCGGAAGC AGAAGATGGC CTTCTTAAAG AGTTTAGAAG AATTATGGC AAATGTTGGT 60
 GGTCCTCTTT GTGTAAAATA AACAACAGAA CTTTAAA 97

SEQ ID NO:4952

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05898

SEQUENCE DESCRIPTION:

GATCTGATAT TAAAACATCC AGTAGTACGA GTCTGTTTAT TGAATTTTAT GGTCCCTTTC 60
 TTTGATGGTG CTGTCAGGTT TTCTAGGTAG AAATTATTTT ATTATTATAA TAAAACAATG 120
 TTTGATTCAA AATTGGAACA AAATTGTTTT AAATAAATTG TCTGTATACC AGTACAAGTT 180
 TATTGTTTCA GTATACTCGT ACTAATAAAA TAACAGTGCC AATTGCAAA 229

SEQ ID NO:4953

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05899

SEQUENCE DESCRIPTION:

GATCCAGAGC CCCTCCCAT CTTCCTCTCT CTAAAAACAA CCCTACCCCC CATTGCCACC 60
 TTCCTCCTG TGTCTCCAGC TGATTAGCCT CAGACTCTTC TTNTATTGTT TTTCTTTTGT 120
 AAATAAAAAG CACCAGGTTT CAAA 144

SEQ ID NO:4954

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05900

SEQUENCE DESCRIPTION:

GATCCGTGCC CTGTAAAATG GATATNATGT TTTACTGATG TCTNTAATAC ATTTGTAAAC 60
 TTCCAATAAA ATTTGAATAA AAGAAATNTT GCCATTCTTC TCAAA 105

SEQ ID NO:4955

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05902

SEQUENCE DESCRIPTION:

GATCTGGCAG CCCTGGAGAG GGACTATGAG GAAGTGGCGC AAAGTTTCTG AGGCATGTAT 60
 GATGGGTGCA AATGAATGTC AAGTTAAAAT GGCATGTTTT CTTTCAAGC CGNTATATGC 120
 CTAGTGGGTA GTTCCCTGTA TGAGCAGAAA AATTGAACTC AAATCAGGCA AGACTCTAGG 180
 NTCCACACTA AATTAAGTGG GTCAGTANGC NCANTGANCA CATTATTTC TGGTCTACTG 240
 GGTACANGTC AGCTCTGCTT ACCTGNGGAG CNTTTTGGAA GCTTAAGAGT NCTTTTGAAC 300
 CTGGCTTGAG GTCAACTTGT TAGGN 325

SEQ ID NO:4956

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05903

SEQUENCE DESCRIPTION:

GATCTGTACA GACAGGACAG AATGAACTC CTGCGGCTCT TTGGCCTGAA AGTTGGGAAT 60
 GGTGGGGGA GAGAAGGGCA GCAGCTTATT GGTGGTCTTT TCACCATTGG CAGAAACAGT 120
 GAGAGCTGTG TGGTGCAGAA ATCCAGAAAT GAGGTGTAGG GAATTTTGCC TNCCTTCCTG 180
 CAGACCTGAG CTGGCTTTGG AATGAGGTTA AAGTGTCAGG GACGTTGCCT GAGCCCAAAT 240
 GTTGTAGTGT GGTCTGGGCA GGCAGACCTT TTAGGNTTTT NCTGCTTTAG TTCCTGAGGN 300
 ANNTNGGCA CTCTTTNTNT N 321

SEQ ID NO:4957

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05907

SEQUENCE DESCRIPTION: